

## Product Data

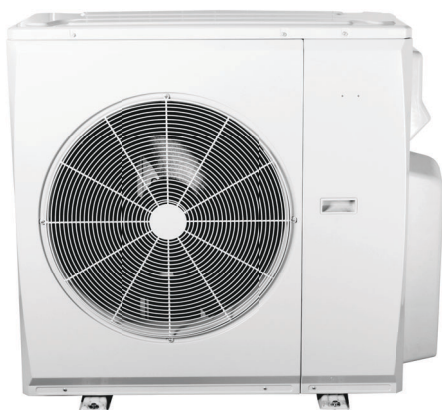


**Fig. 1 — Sizes 18K, 24K, 30K, 36K**



**Fig. 2 — Sizes 48K, 55K**

**NOTE:** Images are for illustration purposes only. Actual models may differ slightly.

### INDUSTRY LEADING FEATURES / BENEFITS

**A competitively priced and creative solution to design problems.**

The **D5CMRA** ductless inverter driven multi-zone system provides individual comfort control for up to 6 separate zones. Match two, three, four or even six space-saving **High Wall, Cassette, Slim Ducted, Air Handler units** or **Floor Console** fan coils with one outdoor heat pump. The indoor fan coils are connected to the outdoor unit by refrigerant tubing and wires.

Mount different indoor unit styles in several locations to accommodate the application. This selection of fan coils permits inexpensive and creative solutions to design problems such as:

- Adding air conditioning to spaces that are heated by hydronic or electric heat and have no ductwork
- Historical renovations or any application where preserving the look of the original structure is essential
- Commercial add-on jobs where the existing air conditioning system cannot be stretched.

These compact indoor fan coil units take up very little space in the room and do not obstruct windows. The fan coils are attractively styled to blend with most room decors. Advanced system components incorporate innovative technology to provide reliable cooling and heating performance at low sound levels.

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## Inverter Technology

Ductless systems are inherently economical to operate. Individual rooms are heated or cooled only when required, and since the air is delivered directly to the space, there is no need to use additional energy to move the air in the ductwork. This economical operation is enhanced further when the inverter system output matches the load resulting in a more efficient system.

The inverter driven compressor is designed to run at various input power frequencies (Hz) which controls the compressor's motor speed.

**Even Temperature** – The control package, including the inverter, monitors the outdoor and indoor temperatures as they relate to the selected indoor set point and adjusts the compressor speed to match the load and keep the system operating continuously rather than cycling and creating temperature swings. This translates to higher comfort levels for the occupants.

**Rapid Pull Down/Warm-Up** – Comfort is increased by the inverter system's ability to ramp up the compressor speed enabling the system to reach the user selected room temperature set point quicker.

**Humidity Control** – Running the system for longer periods and continuously changing the compressor speed enhances the humidity control.

## Individual Room Comfort

Maximum comfort is provided because each space can be controlled individually based on the usage pattern.

## Low Sound Levels

When noise is a concern, ductless systems are the answer. The indoor units are whisper quiet. There are no compressors indoors, either in the conditioned space or directly over it, and there is none of the noise usually generated by air being forced through the ductwork.

When sound ordinances and proximity to neighbors demand quiet operation, the **D5CMRA** unit is the right choice. With the inverter technology, these units run at lower speeds, most of the time resulting in reduced sound levels.

## Easy-To-Use Controls

The multi-zone systems have microprocessor-based controls to provide the ultimate in comfort and efficiency. The user friendly wired and wireless remote controls provide an interface between the user and the unit.

## Secure Operation

If security is an issue, outdoor and indoor units are connected only by refrigerant piping and wiring to prevent intruders from crawling through ductwork or wall openings. Since the **D5CMRA** can be installed close to an outside wall, coils are protected from vandals and severe weather.

## Fast Installation

This compact ductless system is simple to install. A mounting bracket is included with the indoor units and only wires and piping need to run between the indoor and outdoor units. These units are fast and easy to install ensuring minimal disruption to customers in homes or the workplace. This makes **D5CMRA** systems the equipment of choice for retrofit applications.

## Simple Servicing and Maintenance

Removing the top panel of the outdoor unit provides immediate access to the control compartment, providing the service technician access to the diagnostic LEDs to facilitate the troubleshooting process. In addition, the draw-thru design of the outdoor unit means that dirt accumulates on the outside surface of the coil. Coils can be cleaned quickly from the inside using a pressure hose and detergent.

On the indoor units, service and maintenance expense is reduced due to the permanent easy to clean filters. Also, error codes appear on the front panel to alert the user to certain system malfunctions.

## Built-in Reliability

Ductless system indoor and outdoor units are designed to provide years of trouble-free operation. Both the indoor and outdoor units are well protected. Whenever the microprocessor detects abnormal conditions, the unit stops and an error code appears.

Inverter systems provide additional reliability due to the soft start. This refers to the ability of the inverter to start the compressor motor using reduced voltage and reduced current. This feature is beneficial from an electrical standpoint (eliminates current spikes) as well as an overall reliability standpoint due to reduced stress on all associated system components.

## Agency Listings

All systems are listed with AHRI (Air conditioning, Heating, and Refrigeration Institute) and are UL/ETL certified per UL 60335-2-40 standard.

[illegible]

## STANDARD FEATURES AND ACCESSORIES

|                                             |   |
|---------------------------------------------|---|
| <b>Ease Of Installation</b>                 |   |
| Low Voltage Controls                        | S |
| <b>Comfort Features</b>                     |   |
| Microprocessor Control                      | S |
| Auto Restart Function                       | S |
| Auto Changeover                             | S |
| Low Ambient Cooling                         | S |
| Low Ambient Heating                         | S |
| <b>Energy Saving Features</b>               |   |
| Inverter Driven Compressor                  | S |
| 46° F Heating Mode (Heating Setback)        | S |
| <b>Safety And Reliability</b>               |   |
| 3 Minute Time Delay For Compressor          | S |
| High Compressor Discharge Temperature       | S |
| Low Voltage Protection                      | S |
| Compressor Overload Protection              | S |
| Compressor Over Current Protection          | S |
| IPM Module Protection                       | S |
| Aluminum Golden Hydrophilic pre-coated fins | S |
| <b>Ease Of Service And Maintenance</b>      |   |
| Diagnostics                                 | S |
| Error Messages Displayed On Display Board   | S |
| <b>Application Flexibility</b>              |   |
| Crankcase Heater                            | S |
| Base pan Heater                             | S |

### Legend

S - Standard

A - Accessory

## ACCESSORIES

| OUTDOOR UNIT MODEL<br>NUMBER PER UNIT | BASE PAN RUBBER PLUGS<br>RCD PART NUMBER | QTY. |
|---------------------------------------|------------------------------------------|------|
| 18K                                   | 12600801A00077                           | 30   |
| 24K                                   | 12600801A00117                           | 5    |
| 30K                                   | 12600801A00117                           | 5    |
| 36K                                   | 12600801A00117                           | 5    |
| 48K                                   | 12600801A00118                           | 5    |
| 55K                                   | 12600801A00118                           | 5    |

**NOTE: The basepan is built in with multiple holes for proper draining during defrost. For applications where it is required to seal these holes, and re-direct the condensate drain, rubber plugs are available through RCD.**

## Outdoor Units

### Crankcase Heater

The crankcase heater is standard on all unit sizes. Heater clamps must be placed around the compressor oil stump.

### Base pan Heater

The base pan heater is standard on all unit sizes.

## DIMENSIONS

### Dimensions and Weights

**Table 1: DIMENSIONS AND WEIGHTS (HEAT PUMP MODELS)**

| SYSTEM SIZE |      | 18K         | 24K         | 30K         | 36K         | 48K         | 55K         |
|-------------|------|-------------|-------------|-------------|-------------|-------------|-------------|
|             |      | (208/230 V) | (208/230 V) | (208/230 V) | (208/230 V) | (208/230 V) | (208/230 V) |
| HEIGHT (H)  | inch | 26.5        | 31.89       | 31.89       | 31.89       | 52.48       | 52.48       |
|             | mm   | 673         | 810         | 810         | 810         | 1333        | 1333        |
| WIDTH (W)   | inch | 35.04       | 37.24       | 37.24       | 37.24       | 37.48       | 37.48       |
|             | mm   | 890         | 946         | 946         | 946         | 952         | 952         |
| DEPTH (D)   | inch | 13.46       | 16.14       | 16.14       | 16.14       | 16.34       | 16.34       |
|             | mm   | 342         | 410         | 410         | 410         | 415         | 415         |
| WEIGHT -NET | lbs. | 100.53      | 138.89      | 168.87      | 168.87      | 222         | 237.88      |
|             | kg   | 45.6        | 63          | 76.6        | 76.6        | 100.7       | 107.9       |

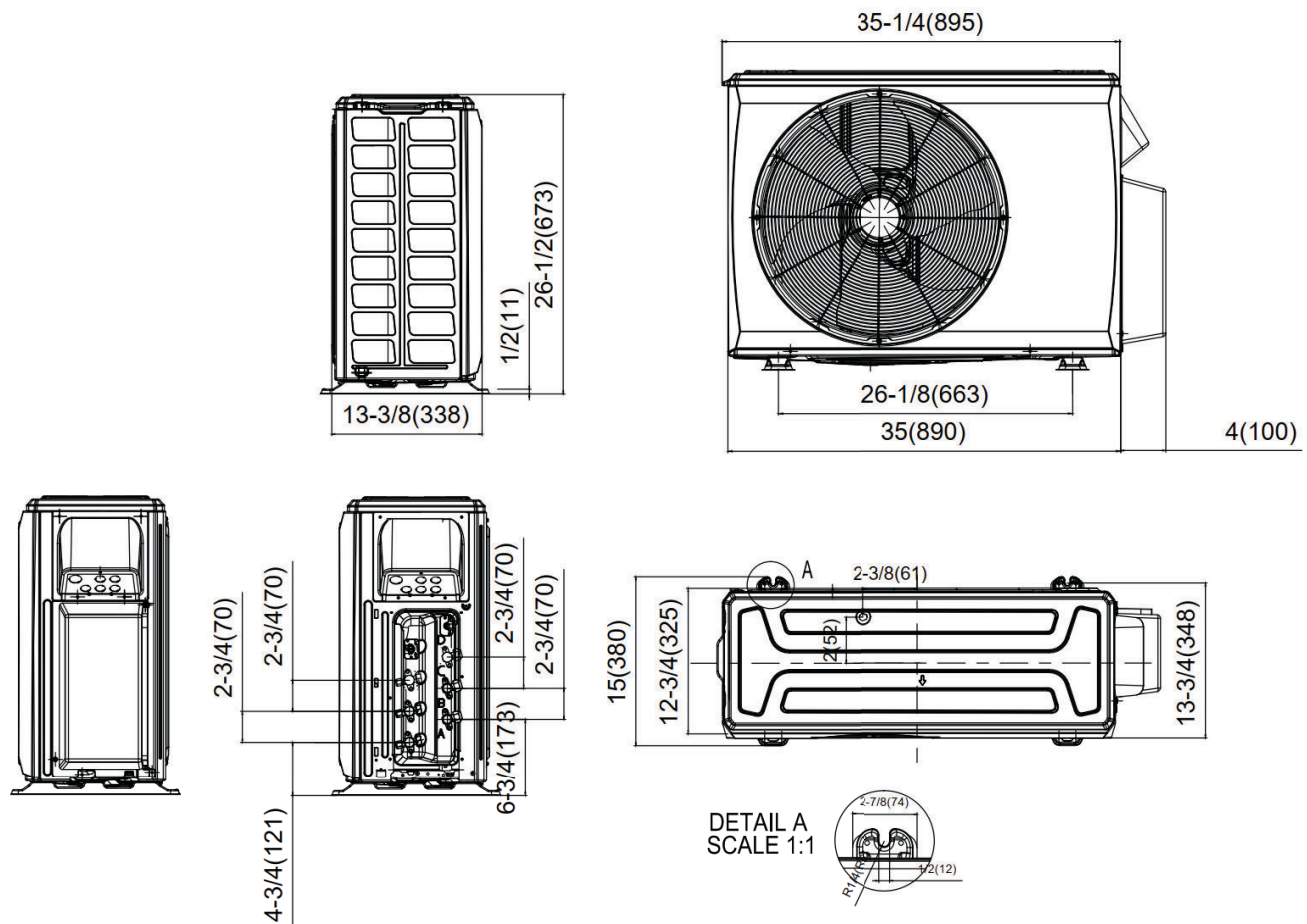


**Fig. 3 — Size 18K**

## DIMENSIONS (CONT)

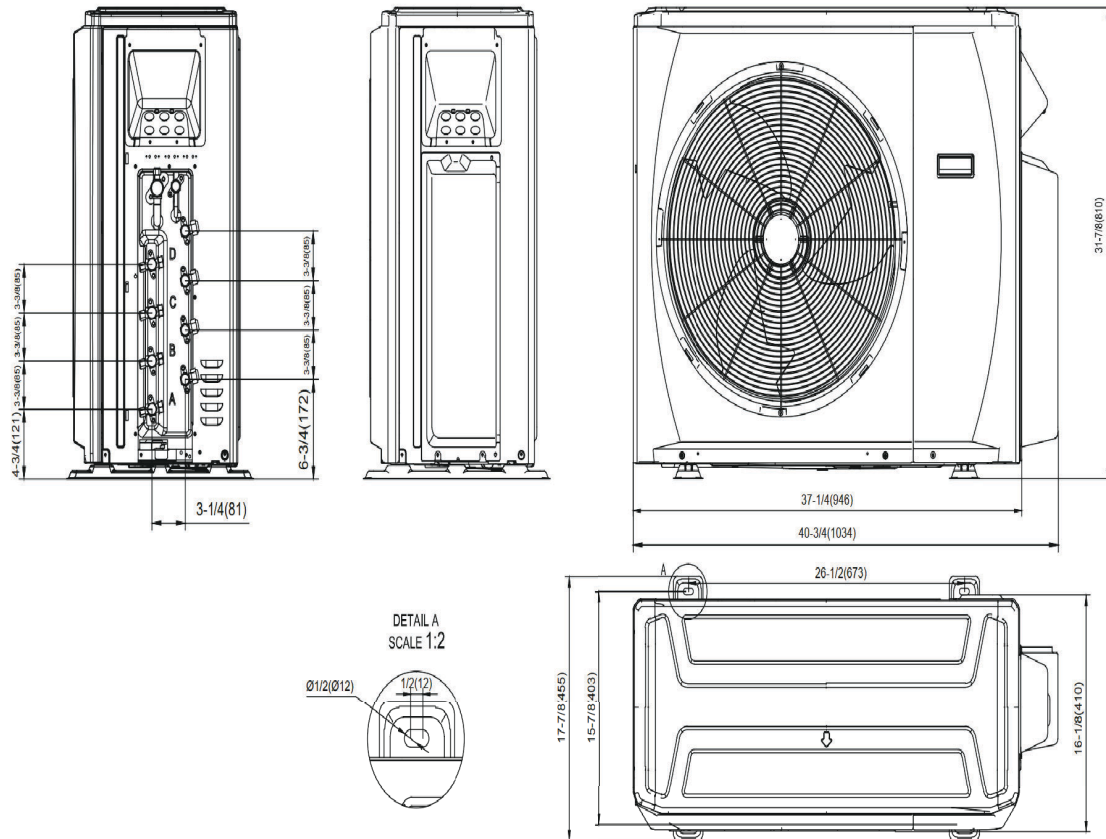


**Fig. 4 — Outdoor Dimensions Size 24K**

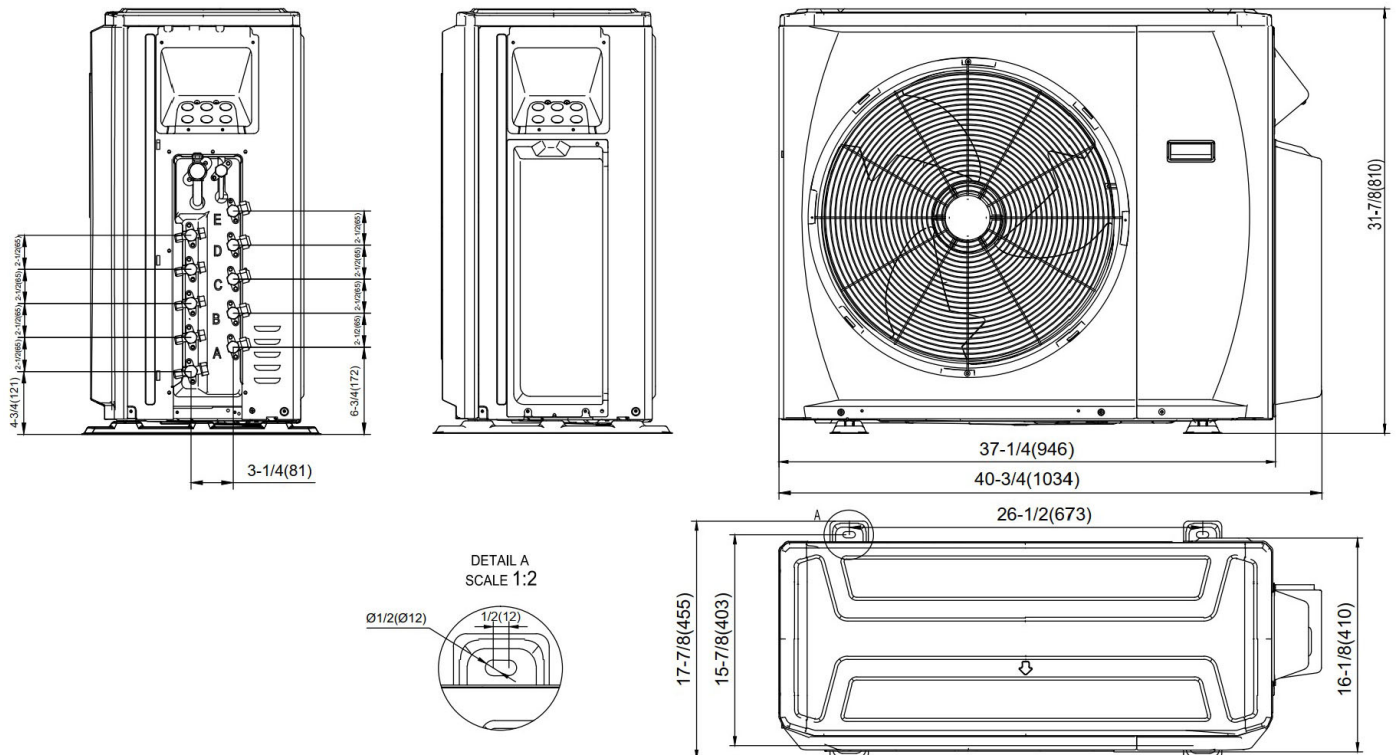


**Fig. 5 — Outdoor Dimensions Sizes 30K / 36K**

DIMENSIONS (CONT)

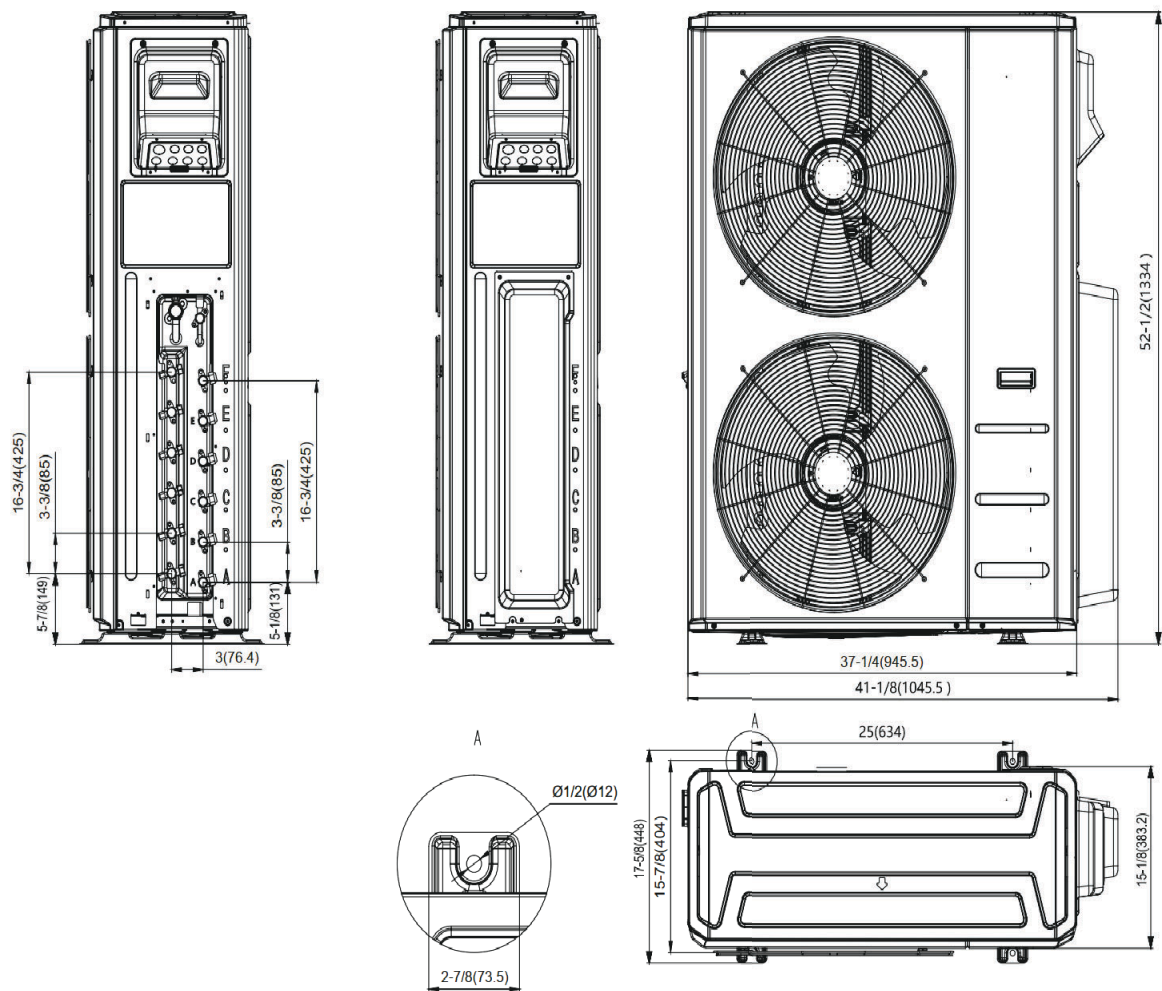


Fig. 6 — Outdoor Dimensions Sizes 48K, 55K

## CLEARANCES

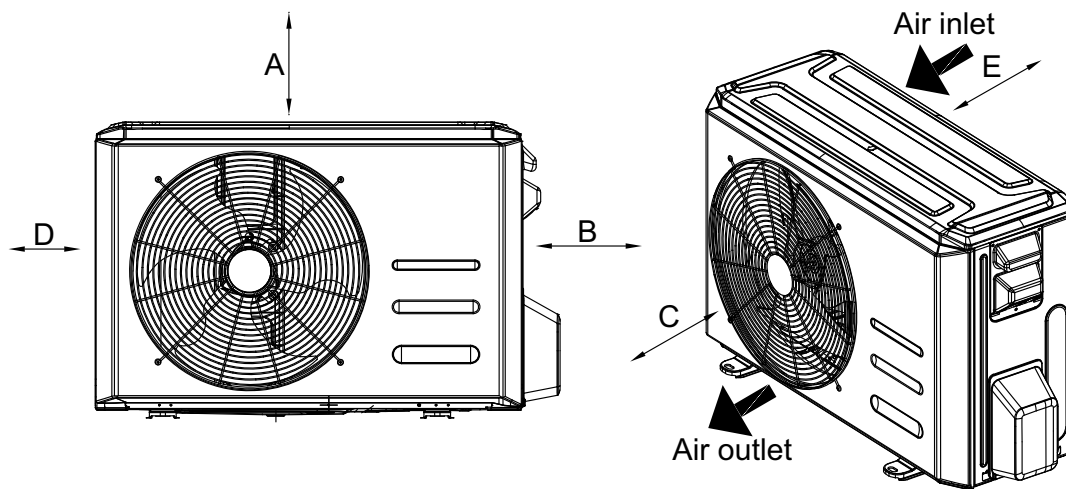


Fig. 7 – Clearances

| UNIT | MINIMUM VALUE<br>IN. (MM) |
|------|---------------------------|
| A    | 20 (500)                  |
| B    | 14 (350)                  |
| C    | 20 (500)                  |
| D    | 4 (100)                   |
| E    | 4 (100)                   |

**NOTE:** The outdoor unit must be mounted at least 2in (50mm) above the maximum anticipated snow depth.

PHYSICAL DATA

Table 2: Physical Data

| OUTDOOR MODEL                      |                  |             | D5CMRAH18CAK                    | D5CMRAH24DAK                    | D5CMRAH30EAK                    | D5CMRAH36EAK                    | D5CMRAH48FAK                    | D5CMRAH55FAK                    |
|------------------------------------|------------------|-------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| POWER SUPPLY                       |                  | V;<br>Ph;Hz | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           |
| COMPRESSOR<br>SPECIFICATIONS       | Model            |             | KTN150D30UFZA                   | KTM240D46UKT2                   | KTF310D43UMT                    | KTF310D43UMT                    | KTQ420D1UMU                     | KTQ420D1UMU                     |
|                                    | Type             |             | Twin-ROTARY                     | ROTARY                          | ROTARY                          | ROTARY                          | ROTARY                          | ROTARY                          |
|                                    | Brand            |             | GMCC                            | GMCC                            | GMCC                            | GMCC                            | GMCC                            | GMCC                            |
|                                    | Capacity         | W           | 4730                            | 4780/7600                       | 10010                           | 10010                           | 13700                           | 13700                           |
|                                    |                  | Btu/h       | 16139                           | 16309/25931                     | 34154                           | 34154                           | 46744                           | 46744                           |
|                                    | Input            | W           | 1250                            | 805/2045                        | 2765                            | 2765                            | 3700                            | 3700                            |
|                                    | Rated current    | A           | 8.1                             | 4.15/9.30                       | 5.38                            | 5.38                            | 7.02                            | 7.02                            |
|                                    | Refrigerant Oil  |             | ESTER OIL                       | ESTER OIL                       | ESTER OIL                       | ESTER OIL                       | ESTER OIL                       | ESTER OIL                       |
|                                    | Oil Type         |             | VG74                            | VG74                            | VG74                            | VG74                            | VG74                            | VG74                            |
|                                    | Oil Charge       | fl. Oz      | 15.22                           | 20.97                           | 33.82                           | 33.82                           | 47.35                           | 47.35                           |
| OUTDOOR FAN 1#<br>SPECIFICATIONS   | Material         | -           | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF |
|                                    | Type             | -           | ZL-535*133*12-3KFN              | ZL-560*139*12-3KN               | ZL-560*139*12-3KN               | ZL-560*139*12-3KN               | ZL-554*148*12-3KFN              | ZL-554*148*12-3KFN              |
|                                    | Diameter         | inch        | 21.1                            | 22.0                            | 22.0                            | 22.0                            | 21.8                            | 21.8                            |
|                                    |                  | mm          | 535                             | 560                             | 560                             | 560                             | 554                             | 554                             |
|                                    | Height           | inch        | 5.2                             | 5.5                             | 5.5                             | 5.5                             | 5.8                             | 5.8                             |
|                                    |                  | mm          | 133                             | 139                             | 139                             | 139                             | 148                             | 148                             |
| OUTDOOR FAN 2#<br>SPECIFICATIONS   | Material         | -           | N/A                             | N/A                             | N/A                             | N/A                             | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF |
|                                    | Type             | -           | N/A                             | N/A                             | N/A                             | N/A                             | ZL-554*148*12-3KFN              | ZL-554*148*12-3KFN              |
|                                    | Diameter         | inch        | N/A                             | N/A                             | N/A                             | N/A                             | 21.8                            | 21.8                            |
|                                    |                  | mm          | N/A                             | N/A                             | N/A                             | N/A                             | 554                             | 554                             |
|                                    | Height           | inch        | N/A                             | N/A                             | N/A                             | N/A                             | 5.8                             | 5.8                             |
|                                    |                  | mm          | N/A                             | N/A                             | N/A                             | N/A                             | 148                             | 148                             |
| OUTDOOR MOTOR 1#<br>SPECIFICATIONS | Model            | -           | ZKFN-80-10-1L                   | ZKFN-120-8-9                    | ZKFN-120-8-9                    | ZKFN-120-8-9                    | ZKFN-85-10-1L                   | ZKFN-85-10-1L                   |
|                                    | Type             | -           | DC                              | DC                              | DC                              | DC                              | DC                              | DC                              |
|                                    | Input            | W           | 78.6                            | 80.0                            | 107.0                           | 107.0                           | 92                              | 92                              |
|                                    | Max. input       | W           | 239.0                           | 176                             | 176                             | 176                             | 167                             | 167                             |
|                                    | Output           | W           | 59                              | 60                              | 80.3                            | 80.3                            | 69                              | 69                              |
|                                    | FLA              | A           | 1.0                             | 1.2                             | 1.3                             | 1.3                             | 2.5                             | 2.5                             |
|                                    | Rated HP         | HP          | 0.08                            | 0.08                            | 0.11                            | 0.11                            | 0.09                            | 0.09                            |
|                                    | Range of current | Amps        | 0.33~1.85                       | 0.79~1.67                       | 0.79~1.67                       | 0.79~1.67                       | 0.77~1.44                       | 0.77~1.44                       |
|                                    | Rated current    | Amps        | 0.71                            | 1.03                            | 1.21                            | 1.21                            | 1.00                            | 1.00                            |
|                                    | Speed            | rev/min     | 750/600/500                     | 800/700/650                     | 900/750/600                     | 900/750/600                     | 800/700/650                     | 800/700/650                     |
|                                    | Rated RPM        | rev/min     | 750                             | 800                             | 900                             | 900                             | 800                             | 800                             |
|                                    | Insulation class | -           | B                               | B                               | B                               | B                               | B                               | B                               |
|                                    | Safe class       | -           | IP24                            | IPX4                            | IPX4                            | IPX4                            | IP44                            | IP44                            |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 2: Physical Data (Continued)

| OUTDOOR MODEL                                 |                              |                 | D5CMRAH18CAK                      | D5CMRAH24DAK                      | D5CMRAH30EAK              | D5CMRAH36EAK              | D5CMRAH48FAK              | D5CMRAH55FAK              |
|-----------------------------------------------|------------------------------|-----------------|-----------------------------------|-----------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| OUTDOOR MOTOR 2#<br>SPECIFICATIONS            | Model                        | -               | N/A                               | N/A                               | N/A                       | N/A                       | ZKFN-85-10-1L             | ZKFN-85-10-1L             |
|                                               | Type                         | -               | N/A                               | N/A                               | N/A                       | N/A                       | DC                        | DC                        |
|                                               | Input                        | W               | N/A                               | N/A                               | N/A                       | N/A                       | 92                        | 92                        |
|                                               | Max. input                   | W               | N/A                               | N/A                               | N/A                       | N/A                       | 167                       | 167                       |
|                                               | Output                       | W               | N/A                               | N/A                               | N/A                       | N/A                       | 69                        | 69                        |
|                                               | FLA                          | A               | N/A                               | N/A                               | N/A                       | N/A                       | 2.5                       | 2.5                       |
|                                               | Rated HP                     | HP              | N/A                               | N/A                               | N/A                       | N/A                       | 0.09                      | 0.09                      |
|                                               | Range of current             | Amps            | N/A                               | N/A                               | N/A                       | N/A                       | 0.77~1.44                 | 0.77~1.44                 |
|                                               | Rated current                | Amps            | N/A                               | N/A                               | N/A                       | N/A                       | 1.00                      | 1.00                      |
|                                               | Speed                        | rev/min         | N/A                               | N/A                               | N/A                       | N/A                       | 800/700/650               | 800/700/650               |
|                                               | Rated RPM                    | rev/min         | N/A                               | N/A                               | N/A                       | N/A                       | 800                       | 800                       |
|                                               | Insulation class             | -               | N/A                               | N/A                               | N/A                       | N/A                       | B                         | B                         |
|                                               | Safe class                   | -               | N/A                               | N/A                               | N/A                       | N/A                       | IP44                      | IP44                      |
|                                               |                              |                 |                                   |                                   |                           |                           |                           |                           |
| OUTDOOR REFRIGERANT<br>COIL 1# SPECIFICATIONS | Number of rows               | Rows            | 2                                 | 2                                 | 2.5                       | 2.5                       | 2                         | 2.6                       |
|                                               | Tube outside dia.            | inch            | 0.276                             | 0.276                             | 0.276                     | 0.276                     | 0.276                     | 0.276                     |
|                                               |                              | mm              | Φ7                                | Φ7                                | Φ7                        | Φ7                        | Φ7                        | Φ7                        |
|                                               | Nominal Tube Wall            | mm              | 0.00945 (0.24)                    | 0.00945 (0.24)                    | 0.00945 (0.24)            | 0.00945 (0.24)            | 0.00945 (0.24)            | 0.00945 (0.24)            |
|                                               | Tube Enhancement             | Yes/No          | Yes                               | Yes                               | Yes                       | Yes                       | Yes                       | Yes                       |
|                                               | Tube Material                |                 | Copper                            | Copper                            | Copper                    | Copper                    | Copper                    | Copper                    |
|                                               | Tube pitch(a)x row pitch(b)  | inch            | 0.83× 0.87                        | 0.83× 0.53                        | 0.83× 0.87                | 0.83× 0.87                | 0.83× 0.87                | 0.83× 0.87                |
|                                               |                              | mm              | 21x22                             | 21x13.37                          | 21x22                     | 21x22                     | 21x22                     | 21x22                     |
|                                               | Fin Spacing                  | FPI             | 20                                | 19                                | 20                        | 20                        | 22                        | 20                        |
|                                               |                              | mm              | 1.3                               | 1.4                               | 1.3                       | 1.3                       | 1.2                       | 1.3                       |
|                                               | Fin type                     |                 | Plain fin                         | Louvered                          | Plain fin                 | Plain fin                 | Plain fin                 | Plain fin                 |
|                                               | Fin Material                 |                 | Gold hydrophilic aluminum         | Gold hydrophilic aluminum         | Gold hydrophilic aluminum | Gold hydrophilic aluminum | Gold hydrophilic aluminum | Gold hydrophilic aluminum |
|                                               | Coil length x height x width | inch            | 35.43x23.98x0.87+34.06x23.98x0.87 | 39.57x29.76x0.53+38.78x29.76x0.53 | 39.17x30x2.6              | 39.17x30x2.6              | 38.39x24.8x1.73           | 38.78x24.8x2.6            |
|                                               |                              | mm              | 900*609*22+865*609*22             | 1005x756x13.37+985x756x13.37      | 995x762x66                | 995x762x66                | 975x630x44                | 985x630x66                |
|                                               | Face area                    | ft <sup>2</sup> | 5.90                              | 8.18                              | 8.16                      | 8.16                      | 6.61                      | 6.68                      |
|                                               | Number of circuits           | #               | 6                                 | 6                                 | 12                        | 12                        | 10                        | 5                         |
|                                               | High Burst Pressure          | Psi (MPa)       | 550(3.79)                         | 550(3.79)                         | 550(3.79)                 | 550(3.79)                 | 550(3.79)                 | 550(3.79)                 |
|                                               | Low Burst Pressure           | Psi (MPa)       | 340(2.34)                         | 340(2.34)                         | 340(2.34)                 | 340(2.34)                 | 340(2.34)                 | 340(2.34)                 |

Table 2: Physical Data (Continued)

| OUTDOOR MODEL                                 |                              |           | D5CMRAH18CAK | D5CMRAH24DAK | D5CMRAH30EAK | D5CMRAH36EAK | D5CMRAH48FAK              | D5CMRAH55FAK              |
|-----------------------------------------------|------------------------------|-----------|--------------|--------------|--------------|--------------|---------------------------|---------------------------|
| OUTDOOR REFRIGERANT<br>COIL 2# SPECIFICATIONS | Number of rows               | Rows      | N/A          | N/A          | N/A          | N/A          | 2                         | 2.6                       |
|                                               | Tube outside dia.            | inch      | N/A          | N/A          | N/A          | N/A          | 0.276                     | 0.276                     |
|                                               |                              | mm        | N/A          | N/A          | N/A          | N/A          | Φ7                        | Φ7                        |
|                                               | Nominal Tube Wall            | mm        | N/A          | N/A          | N/A          | N/A          | 0.00945 (0.24)            | 0.00945 (0.24)            |
|                                               | Tube Enhancement             | Yes/No    | N/A          | N/A          | N/A          | N/A          | Yes                       | Yes                       |
|                                               | Tube Material                |           | N/A          | N/A          | N/A          | N/A          | Copper                    | Copper                    |
|                                               | Tube pitch(a) x row pitch(b) | inch      | N/A          | N/A          | N/A          | N/A          | 0.83× 0.87                | 0.83× 0.87                |
|                                               |                              | mm        | N/A          | N/A          | N/A          | N/A          | 21x22                     | 21x22                     |
|                                               | Fin Spacing                  | FPI       | N/A          | N/A          | N/A          | N/A          | 22                        | 20                        |
|                                               |                              | mm        | N/A          | N/A          | N/A          | N/A          | 1.2                       | 1.3                       |
|                                               | Fin type                     |           | N/A          | N/A          | N/A          | N/A          | Plain fin                 | Plain fin                 |
|                                               | Fin Material                 |           | N/A          | N/A          | N/A          | N/A          | Gold hydrophilic aluminum | Gold hydrophilic aluminum |
|                                               | Coil length x height x width | inch      | N/A          | N/A          | N/A          | N/A          | 38.39x24.8x1.73           | 38.58x24.8x2.6            |
|                                               |                              | mm        | N/A          | N/A          | N/A          | N/A          | 975x630x44                | 980x630x66                |
|                                               | Face area                    | ft2       | N/A          | N/A          | N/A          | N/A          | 6.61                      | 6.65                      |
|                                               | Number of circuits           | #         | N/A          | N/A          | N/A          | N/A          | 10                        | 5                         |
|                                               | High Burst Pressure          | Psi (MPa) | N/A          | N/A          | N/A          | N/A          | 550(3.79)                 | 550(3.79)                 |
|                                               | Low Burst Pressure           | Psi (MPa) | N/A          | N/A          | N/A          | N/A          | 340(2.34)                 | 340(2.34)                 |

**Table 2: Physical Data (Continued)**

| OUTDOOR MODEL                      |                                                                                                             |                              | D5CMRAH18CAK          | D5CMRAH24DAK                            | D5CMRAH30EAK                            | D5CMRAH36EAK                            | D5CMRAH48FAK                            | D5CMRAH55FAK                            |          |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------|-----------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|----------|
| PIPING AND REFRIGERANT INFORMATION | Refrigerant Type                                                                                            | Type                         | R454B                 | R454B                                   | R454B                                   | R454B                                   | R454B                                   | R454B                                   |          |
|                                    | Charge Amount                                                                                               | lb. (kg)                     | 3.86(1.75)            | 5.29(2.4)                               | 7.54(3.42)                              | 7.54(3.42)                              | 9.26(4.2)                               | 9.48(4.3)                               |          |
|                                    | Liquid Pipe (size - connection type)                                                                        | In (mm)                      | 3x1/4in<br>(3x6.35mm) | 4x1/4in<br>(4x6.35mm)                   | 5x1/4in<br>(5x6.35mm)                   | 5x1/4in<br>(5x6.35mm)                   | 6x1/4in<br>(5x6.35mm)                   | 6x1/4in<br>(5x6.35mm)                   |          |
|                                    | Suction Pipe (size - connection type)                                                                       | In (mm)                      | 3x3/8in<br>(3x9.52mm) | 3x3/8in+1x1/2in<br>(3x9.52mm+1x12.7 mm) | 3x3/8in+2x1/2in<br>(3x9.52mm+2x12.7 mm) | 3x3/8in+2x1/2in<br>(3x9.52mm+2x12.7 mm) | 4x3/8in+2x1/2in<br>(4x9.52mm+2x12.7m m) | 4x3/8in+2x1/2in<br>(4x9.52mm+2x12.7m m) |          |
|                                    | Min. Piping Length per each indoor unit                                                                     | ft. (m)                      | 10 (3)                | 10 (3)                                  | 10 (3)                                  | 10 (3)                                  | 10 (3)                                  | 10 (3)                                  |          |
|                                    | Standard Piping Length per each indoor unit                                                                 | ft. (m)                      | 24.6 (7.5)            | 24.6 (7.5)                              | 24.6 (7.5)                              | 24.6 (7.5)                              | 24.6 (7.5)                              | 24.6 (7.5)                              |          |
|                                    | Max. outdoor-indoor height difference (OU higher than IU)                                                   | ft. (m)                      | 49.21(15)             | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               |          |
|                                    | Max. outdoor-indoor height difference (IU higher than OU)                                                   | ft. (m)                      | 49.21(15)             | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               | 49.21(15)                               |          |
|                                    | Max. Piping Length with no additional refrigerant charge per System (Standard Piping length x No. of Zones) | ft. (m)                      | 73.8 (22.5)           | 98.4(30)                                | 123(37.5)                               | 123(37.5)                               | 147.6(45)                               | 147.6(45)                               |          |
|                                    | Additional refrigerant charge (between Standard – Max piping length)                                        | Oz/ft (g/m)                  | 0.16(15)              | 0.16(15)                                | 0.16(15)                                | 0.16(15)                                | 0.16(15)                                | 0.16(15)                                |          |
|                                    | Max. Length per each indoor unit                                                                            | ft. (m)                      | 98.4(30)              | 114.8(35)                               | 114.8(35)                               | 114.8(35)                               | 114.8(35)                               | 114.8(35)                               |          |
|                                    | Total Maximum Piping Length per system                                                                      | ft. (m)                      | 196.9(60)             | 262.5(80)                               | 262.5(80)                               | 262.5(80)                               | 328(100)                                | 328(100)                                |          |
|                                    | Number of IDU                                                                                               | ft. (m)                      | 3                     | 4                                       | 5                                       | 5                                       | 6                                       | 6                                       |          |
| AIRFLOW SPECIFICATIONS             |                                                                                                             | Outdoor (CFM)                | CFM                   | 1765.7                                  | 2130.7                                  | 2148.3                                  | 2148.3                                  | 4502.6                                  | 4502.6   |
| SOUND DATA                         |                                                                                                             | Outdoor Sound Pressure Level | dB(A)                 | 59.5                                    | 61                                      | 64.5                                    | 64.5                                    | 63                                      | 65       |
| ENVIRONMENTAL SPECIFICATIONS       | Cooling Operating Range                                                                                     | Indoor Min - Max DB          | °F                    | 60~90                                   | 60~90                                   | 60~90                                   | 60~90                                   | 60~90                                   | 60~90    |
|                                    |                                                                                                             |                              | (°C)                  | (16~32)                                 | (16~32)                                 | (16~32)                                 | (16?32)                                 | (16?32)                                 | (16?32)  |
|                                    |                                                                                                             | Indoor Min - Max WB          | °F                    | 59-84                                   | 59-84                                   | 59-84                                   | 59-84                                   | 59-84                                   | 59-84    |
|                                    |                                                                                                             |                              | (°C)                  | (15-29)                                 | (15-29)                                 | (15-29)                                 | (15-29)                                 | (15-29)                                 | (15-29)  |
|                                    |                                                                                                             | Outdoor Min - Max DB         | °F                    | -13~122                                 | -13~122                                 | -13~122                                 | -13~122                                 | -13~122                                 | -13~122  |
|                                    |                                                                                                             |                              | (°C)                  | (-25~50)                                | (-25~50)                                | (-25~50)                                | (-25~50)                                | (-25~50)                                | (-25~50) |
|                                    | * Heating Operating Range                                                                                   | Indoor Min - Max DB          | °F                    | 32~86                                   | 32~86                                   | 32~86                                   | 32~86                                   | 32~86                                   | 32~86    |
|                                    |                                                                                                             |                              | (°C)                  | (0~30)                                  | (0~30)                                  | (0~30)                                  | (0~30)                                  | (0~30)                                  | (0~30)   |
|                                    |                                                                                                             | Outdoor Min - Max DB         | °F                    | -13~75                                  | -13~75                                  | -13~75                                  | -13~75                                  | -13~75                                  | -13~75   |
|                                    |                                                                                                             |                              | (°C)                  | (-25~24)                                | (-25~24)                                | (-25~24)                                | (-25~24)                                | (-25~24)                                | (-25~24) |
|                                    | Non-operating environment Storage                                                                           | Temperature range (DB)       | °F                    | -49-140                                 | -49-140                                 | -49-140                                 | -49-140                                 | -49-140                                 | -49-140  |
|                                    |                                                                                                             |                              | (°C)                  | (-45-60)                                | (-45-60)                                | (-45-60)                                | (-45-60)                                | (-45-60)                                | (-45-60) |
|                                    | Operation Humidity                                                                                          | %                            |                       | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%    |
|                                    | Ambient Humidity                                                                                            | %                            |                       | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%                                   | 0-80%    |

\* The system will not lock out heating operation at outdoor temperatures above 75°F. It will continue to run until the software shuts down ( at approximately 93°F)

# PERFORMANCE

## Table 3: Ductless Performance

| INDOOR UNIT TYPE |                                         |             | DUCTLESS              |                       |                       |                       |                       |                       |
|------------------|-----------------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| OUTDOOR MODEL    |                                         |             | D5CMRAH18CAK          | D5CMRAH24DAK          | D5CMRAH30EAK          | D5CMRAH36EAK          | D5CMRAH48FAK          | D5CMRAH55FAK          |
| POWER SUPPLY     |                                         | V;<br>Ph;Hz | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;1<br>Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ |
| PERFORMANCE DATA | Cooling Rated Capacity (DOE A2 - 95°F)  | Btu/h       | 18000                 | 24000                 | 30000                 | 36000                 | 47000                 | 60000                 |
|                  | Cooling Capacity Range                  | Btu/h       | 5400~21600            | 7200~32000            | 9000~42000            | 9000~42000            | 12000~55000           | 19000~62000           |
|                  | SEER2                                   | Btu/h.<br>W | 25.2                  | 25                    | 25                    | 24                    | 24                    | 22                    |
|                  | EER2 (DOE A2 - 95°F)                    | Btu/h.<br>W | 14                    | 13.5                  | 13                    | 12                    | 12.5                  | 10                    |
|                  | Heating Rated Capacity (DOE H12 - 47°F) | Btu/h       | 19000                 | 25000                 | 31000                 | 37000                 | 48000                 | 60000                 |
|                  | Heating Capacity Range                  | Btu/h       | 5700~21600            | 8400~29000            | 10000~42500           | 10000~42500           | 13000~53000           | 20000~60000           |
|                  | COP (DOE H12 - 47°F)                    | W/W         | 3.8                   | 4                     | 3.9                   | 3.5                   | 3.8                   | 3.7                   |
|                  | HSPF2 IV                                | Btu/h.<br>W | 9.8                   | 9.5                   | 10                    | 9.5                   | 10.4                  | 9.6                   |
|                  | HSPF2 V                                 | Btu/h.<br>W | 7.8                   | 7.5                   | 8                     | 7.3                   | 8                     | 7.4                   |
|                  | Cooling Rated Capacity (DOE B2 - 82°F)  | Btu/h       | 19200                 | 27800                 | 35000                 | 39000                 | 50000                 | 63000                 |
|                  | EER2 (DOE B2 - 82°F)                    | Btu/h.<br>W | 18                    | 18.0                  | 18                    | 14                    | 15                    | 12.0                  |
|                  | Heating Rated Capacity (DOE H32 - 17°F) | Btu/h       | 13600                 | 17800                 | 26600                 | 26600                 | 38000                 | 39000                 |
|                  | COP (DOE H32 - 17°F)                    | W/W         | 2.8                   | 2.6                   | 2.5                   | 2.4                   | 2.5                   | 2.8                   |
|                  | Heating Maximum Capacity (17°F)         | Btu/h       | 14000                 | 19000                 | 26600                 | 26600                 | 38500                 | 42000                 |
|                  | Heating Rated Capacity (ODE H42 - 5°F)  | Btu/h       | 13500                 | 18000                 | 26000                 | 26000                 | 36000                 | 39000                 |
|                  | COP (DOE H42 - 5°F)                     | W/W         | 2.3                   | 2                     | 2                     | 2                     | 2                     | 2.2                   |
|                  | Heating Maximum Capacity (5°F)          | Btu/h       | 13500                 | 18000                 | 26000                 | 26000                 | 36000                 | 39000                 |
|                  | Cooling Capacity at 109 F (43°C)        | Btu/h       | 18800                 | 26000                 | 30600                 | 30600                 | 42000                 | 46000                 |
|                  | Heating Capacity at -4F (-20°C)         | Btu/h       | 10000                 | 11000                 | 19300                 | 19300                 | 32200                 | 33000                 |
|                  | Heating Capacity at -13F (-25°C)        | Btu/h       | 7800                  | 11000                 | 14600                 | 14600                 | 27000                 | 27800                 |
|                  | Heating Capacity at -22F (-30°C)        | Btu/h       | /                     | /                     | /                     | /                     | /                     | /                     |

**NOTE:** See the current compatibility chart for a list of the indoor and outdoor unit match ups.

**Table 4: Ducted Performance**

| INDOOR UNIT TYPE |                                         |             | DUCTED                |                       |                       |                       |                       |                       |
|------------------|-----------------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| OUTDOOR MODEL    |                                         |             | D5CMRAH18CAK          | D5CMRAH24DAK          | D5CMRAH30EAK          | D5CMRAH36EAK          | D5CMRAH48FAK          | D5CMRAH55FAK          |
| POWER SUPPLY     |                                         | V;<br>Ph;Hz | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;1<br>Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ |
| PERFORMANCE DATA | Cooling Rated Capacity (DOE A2 - 95°F)  | Btu/h       | 18000                 | 24000                 | 30000                 | 35000                 | 45000                 | 60000                 |
|                  | Cooling Capacity Range                  | Btu/h       | 5400~24000            | 7200~32000            | 9000~40000            | 9000~40000            | 12000~52000           | 19000~61000           |
|                  | SEER2                                   | Btu/h.<br>W | 20                    | 21                    | 21                    | 20                    | 20.5                  | 18                    |
|                  | EER2 (DOE A2 - 95°F)                    | Btu/h.<br>W | 12                    | 12.5                  | 12                    | 11.7                  | 12                    | 10                    |
|                  | Heating Rated Capacity (DOE H12 - 47°F) | Btu/h       | 19000                 | 25000                 | 31000                 | 37000                 | 47000                 | 60000                 |
|                  | Heating Capacity Range                  | Btu/h       | 5700~22000            | 8400~28800            | 10000~40500           | 10000~40500           | 13000~53000           | 20000~61000           |
|                  | COP (DOE H12 - 47°F)                    | W/W         | 3.8                   | 3.8                   | 3.7                   | 3.2                   | 3.9                   | 3.7                   |
|                  | HSPF2 IV                                | Btu/h.<br>W | 10                    | 9.5                   | 9.5                   | 9.2                   | 10.6                  | 9.3                   |
|                  | HSPF2 V                                 | Btu/h.<br>W | 7.8                   | 7.5                   | 7.5                   | 7                     | 8.1                   | 7.2                   |
|                  | Cooling Rated Capacity (DOE B2 - 82°F)  | Btu/h       | 19200                 | 28000                 | 33000                 | 37000                 | 47000                 | 64000                 |
|                  | EER2 (DOE B2 - 82°F)                    | Btu/h.<br>W | 14                    | 17                    | 15                    | 14                    | 14                    | 11                    |
|                  | Heating Rated Capacity (DOE H32 - 17°F) | Btu/h       | 14600                 | 18200                 | 26000                 | 26400                 | 37000                 | 39000                 |
|                  | COP (DOE H32 - 17°F)                    | W/W         | 2.8                   | 2.6                   | 2.4                   | 2.3                   | 2.5                   | 2.6                   |
|                  | Heating Maximum Capacity (17°F)         | Btu/h       | 14600                 | 18600                 | 28000                 | 28000                 | 41000                 | 41000                 |
|                  | Heating Rated Capacity (ODE H42 - 5°F)  | Btu/h       | 14600                 | 18000                 | 25000                 | 26000                 | 38000                 | 40000                 |
|                  | COP (DOE H42 - 5°F)                     | W/W         | 2.3                   | 2                     | 2                     | 2                     | 2.1                   | 2.1                   |
|                  | Heating Maximum Capacity (5°F)          | Btu/h       | 14600                 | 18000                 | 25000                 | 26000                 | 38000                 | 40000                 |
|                  | Cooling Capacity at 109 F (43°C)        | Btu/h       | 18400                 | 27400                 | 30000                 | 30000                 | 42000                 | 46000                 |
|                  | Heating Capacity at -4F (-20°C)         | Btu/h       | 10600                 | 13400                 | 21800                 | 21800                 | 25000                 | 35000                 |
|                  | Heating Capacity at -13F (-25°C)        | Btu/h       | 8200                  | 12000                 | 17500                 | 17500                 | 24000                 | 24000                 |
|                  | Heating Capacity at -22F (-30°C)        | Btu/h       | /                     | /                     | /                     | /                     | /                     | /                     |

**Table 5: Mixed Performance**

| INDOOR UNIT TYPE                 |                                         |             | MIXED                 |                       |                       |                       |                       |                       |
|----------------------------------|-----------------------------------------|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| OUTDOOR MODEL                    |                                         |             | D5CMRAH18CAK          | D5CMRAH24DAK          | D5CMRAH30EAK          | D5CMRAH36EAK          | D5CMRAH48FAK          | D5CMRAH55FAK          |
| POWER SUPPLY                     |                                         | V;<br>Ph;Hz | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;1<br>Ph;60HZ | 208/230V;<br>1Ph;60HZ | 208/230V;<br>1Ph;60HZ |
| PERFORMANCE DATA                 | Cooling Rated Capacity (DOE A2 - 95°F)  | Btu/h       | 18000                 | 24000                 | 30000                 | 35400                 | 46000                 | 60000                 |
|                                  | Cooling Capacity Range                  | Btu/h       | 5400~22800            | 7200~32000            | 9000~41000            | 9000~41000            | 12000~53500           | 19000~61500           |
|                                  | SEER2                                   | Btu/h.<br>W | 22.6                  | 23                    | 23                    | 22                    | 22.25                 | 20                    |
|                                  | EER2 (DOE A2 - 95°F)                    | Btu/h.<br>W | 13                    | 13                    | 12.5                  | 11.85                 | 12.25                 | 10                    |
|                                  | Heating Rated Capacity (DOE H12 - 47°F) | Btu/h       | 19000                 | 25000                 | 31000                 | 37000                 | 47500                 | 60000                 |
|                                  | Heating Capacity Range                  | Btu/h       | 5700~21800            | 8400~28900            | 10000~41500           | 10000~41500           | 13000~53000           | 20000~60500           |
|                                  | COP (DOE H12 - 47°F)                    | W/W         | 3.8                   | 3.9                   | 3.8                   | 3.35                  | 3.85                  | 3.7                   |
|                                  | HSPF2 IV                                | Btu/h.<br>W | 9.9                   | 9.5                   | 9.75                  | 9.35                  | 10.5                  | 9.45                  |
|                                  | HSPF2 V                                 | Btu/h.<br>W | 7.8                   | 7.5                   | 7.75                  | 7.15                  | 8.05                  | 7.3                   |
|                                  | Cooling Rated Capacity (DOE B2 - 82°F)  | Btu/h       | 19200                 | 27900                 | 34000                 | 38000                 | 48500                 | 63500                 |
|                                  | EER2 (DOE B2 - 82°F)                    | Btu/h.<br>W | 16                    | 17.5                  | 16.5                  | 14                    | 14.5                  | 11.5                  |
|                                  | Heating Rated Capacity (DOE H32 - 17°F) | Btu/h       | 14100                 | 18000                 | 26300                 | 26500                 | 37500                 | 39000                 |
|                                  | COP (DOE H32 - 17°F)                    | W/W         | 2.8                   | 2.6                   | 2.45                  | 2.35                  | 2.5                   | 2.7                   |
|                                  | Heating Maximum Capacity (17°F)         | Btu/h       | 14300                 | 18800                 | 27300                 | 27300                 | 39750                 | 41500                 |
|                                  | Heating Rated Capacity (ODE H42 - 5°F)  | Btu/h       | 14000                 | 18000                 | 25500                 | 26000                 | 37000                 | 39500                 |
|                                  | COP (DOE H42 - 5°F)                     | W/W         | 2.3                   | 2                     | 2                     | 2                     | 2.05                  | 2.15                  |
|                                  | Heating Maximum Capacity (5°F)          | Btu/h       | 14050                 | 18000                 | 25500                 | 26000                 | 37000                 | 39500                 |
|                                  | Cooling Capacity at 109 F (43°C)        | Btu/h       | 18600                 | 26700                 | 30300                 | 30300                 | 42000                 | 46000                 |
|                                  | Heating Capacity at -4F (-20°C)         | Btu/h       | 10300                 | 12200                 | 20550                 | 20550                 | 28600                 | 34000                 |
|                                  | Heating Capacity at -13F (-25°C)        | Btu/h       | 8000                  | 11500                 | 16050                 | 16050                 | 25500                 | 25900                 |
| Heating Capacity at -22F (-30°C) | Btu/h                                   | /           | /                     | /                     | /                     | /                     | /                     |                       |

# COOLING PERFORMANCE

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**NOTE: Data highlighted in gray is extrapolated data and not actual test data. At 77°F outdoor conditions sweat protection activates causing a decrease in total capacity.**

#### LEGEND

**TC - Total Net Capacity (Btu/hour)**

**S/T: Sensible Cooling Capacity Ratio**

**PI: Power Input (kW)**

**Extrapolated Data - The data highlighted in green is tested, other data is simulated and for reference only.**

Table 6: COOLING PERFORMANCE 18K - NON-DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 529              | -13°F<br>-25.0°C         | TC               | 16367            | 16365            | 16363            | 16363            | 16360            | 17129            | 17125            | 17122            | 17122            | 17118            | 17669            | 17665            | 17661            | 17660            | 17656            | 18683            | 18678            | 18673            | 18673            | 18667            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 17627            | 17624            | 17622            | 17621            | 17618            | 18447            | 18442            | 18439            | 18439            | 18435            | 19029            | 19024            | 19019            | 19019            | 19014            | 20120            | 20114            | 20110            | 20109            | 20102            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 18200            | 18196            | 18194            | 18193            | 18188            | 19039            | 19035            | 19031            | 19030            | 19025            | 19633            | 19628            | 19623            | 19622            | 19616            | 20740            | 20735            | 20731            | 20730            | 20722            |                  |
|                  |                          | S/T              | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 18771            | 18771            | 18771            | 18771            | 19051            | 19708            | 19705            | 19704            | 19704            | 19706            | 20382            | 20381            | 20378            | 20377            | 20379            | 21674            | 21668            | 21663            | 21662            | 21662            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 19483            | 19481            | 19478            | 19478            | 19573            | 20506            | 20501            | 20498            | 20497            | 20493            | 21237            | 21232            | 21226            | 21226            | 21221            | 22625            | 22618            | 22613            | 22612            | 22605            |                  |
|                  |                          | S/T              | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 19735            | 19731            | 19728            | 19727            | 20012            | 20770            | 20765            | 20761            | 20760            | 20760            | 21513            | 21512            | 21509            | 21509            | 21512            | 22966            | 22959            | 22954            | 22953            | 22954            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 1.41             | 1.41             | 1.41             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 19590            | 19590            | 19590            | 19603            | 19961            | 20644            | 20640            | 20640            | 20640            | 20642            | 21403            | 21401            | 21398            | 21398            | 21400            | 22861            | 22855            | 22849            | 22848            | 22848            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |                  |
|                  | 35°F<br>1.7°C            | TC               | 19459            | 19458            | 19457            | 19456            | 19483            | 20467            | 20466            | 20463            | 20463            | 20461            | 21180            | 21176            | 21175            | 21174            | 21171            | 22514            | 22509            | 22505            | 22504            | 22503            |                  |
|                  |                          | S/T              | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |                  |
|                  |                          | PI               | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             |                  |
|                  | 41°F<br>5.0°C            | TC               | 18867            | 18865            | 18864            | 18863            | 18908            | 19837            | 19834            | 19832            | 19832            | 19830            | 20522            | 20518            | 20516            | 20516            | 20512            | 21805            | 21801            | 21797            | 21796            | 21794            |                  |
|                  |                          | S/T              | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             |                  |
|                  | 47°F<br>8.3°C            | TC               | 18270            | 18268            | 18267            | 18267            | 18330            | 19203            | 19201            | 19198            | 19198            | 19197            | 19863            | 19859            | 19857            | 19857            | 19854            | 21097            | 21092            | 21088            | 21087            | 21085            |                  |
|                  |                          | S/T              | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |                  |
|                  | 50°F<br>10.0°C           | TC               | 17653            | 17656            | 17819            | 17963            | 18630            | 18721            | 18725            | 18730            | 18731            | 18800            | 19496            | 19498            | 19506            | 19508            | 19516            | 20997            | 20989            | 20992            | 20991            | 21009            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |                  |
|                  | 59°F<br>15.0°C           | TC               | 16619            | 16645            | 16972            | 17072            | 17739            | 17676            | 17680            | 17683            | 17684            | 17792            | 18450            | 18445            | 18452            | 18453            | 18459            | 19933            | 19925            | 19926            | 19925            | 19940            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 1.29             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |                  |
|                  | 68°F<br>20.0°C           | TC               | 15604            | 15655            | 16097            | 16195            | 16858            | 16640            | 16643            | 16645            | 16645            | 16845            | 17396            | 17392            | 17399            | 17400            | 17403            | 18850            | 18842            | 18843            | 18842            | 18857            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 1.27             | 1.27             | 1.28             | 1.28             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |                  |
|                  | 77°F<br>25.0°C           | TC               | 14572            | 14645            | 15147            | 15246            | 15902            | 15592            | 15597            | 15601            | 15616            | 15925            | 16337            | 16336            | 16345            | 16346            | 16366            | 17772            | 17764            | 17766            | 17766            | 17787            |                  |
|                  |                          | S/T              | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 1.27             | 1.27             | 1.27             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |                  |
|                  | 82°F<br>27.8°C           | TC               | 14446            | 14540            | 15097            | 15197            | 15869            | 15483            | 15491            | 15504            | 15517            | 15892            | 16242            | 16243            | 16253            | 16254            | 16282            | 17704            | 17695            | 17699            | 17700            | 17724            |                  |
|                  |                          | S/T              | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 1.29             | 1.29             | 1.30             | 1.30             | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             |                  |
|                  | 86°F<br>30.0°C           | TC               | 14905            | 15035            | 15662            | 15767            | 16476            | 15995            | 16002            | 16024            | 16039            | 16500            | 16790            | 16792            | 16801            | 16802            | 16840            | 18323            | 18314            | 18317            | 18321            | 18344            |                  |
|                  |                          | S/T              | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 1.34             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |                  |
|                  | 95°F<br>35.0°C           | TC               | 16176            | 16175            | 16177            | 16195            | 16610            | 17259            | 17255            | 17254            | 17254            | 17257            | 18040            | 18038            | 18035            | 18034            | 18035            | 19550            | 19543            | 19537            | 19537            | 19536            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             |                  |                  |                  |                  |

Table 6: COOLING PERFORMANCE 18K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>OR<br>DB °F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                              | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 688              | -13°F<br>-25.0°C         | TC                           | 18168            | 18164            | 18161            | 18160            | 18533            | 18986            | 18981            | 18976            | 18975            | 18969            | 19566            | 19560            | 19553            | 19551            | 19543            | 20654            | 20648            | 20640            | 20639            | 20626            |
|                  |                          | S/T                          | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                          | PI                           | 1.54             | 1.54             | 1.54             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                  | -4°F<br>-20.0°C          | TC                           | 19566            | 19562            | 19558            | 19557            | 19959            | 20447            | 20441            | 20435            | 20434            | 20428            | 21071            | 21064            | 21057            | 21055            | 21046            | 22242            | 22237            | 22228            | 22227            | 22213            |
|                  |                          | S/T                          | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                           | 1.59             | 1.60             | 1.60             | 1.60             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
|                  | 0°F<br>-17.8°C           | TC                           | 20206            | 20200            | 20196            | 20195            | 20698            | 21107            | 21099            | 21091            | 21090            | 21081            | 21744            | 21735            | 21725            | 21723            | 21710            | 22927            | 22923            | 22920            | 22919            | 22922            |
|                  |                          | S/T                          | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                           | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                  | 5°F<br>-15.0°C           | TC                           | 20820            | 20822            | 20887            | 20917            | 21528            | 21834            | 21833            | 21836            | 21836            | 21862            | 22560            | 22560            | 22561            | 22562            | 22566            | 23947            | 23941            | 23941            | 23940            | 23942            |
|                  |                          | S/T                          | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                           | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
|                  | 14°F<br>-10.0°C          | TC                           | 21623            | 21618            | 21614            | 21613            | 22227            | 22727            | 22720            | 22714            | 22713            | 22705            | 23517            | 23509            | 23501            | 23499            | 23488            | 25018            | 25010            | 25000            | 24999            | 24983            |
|                  |                          | S/T                          | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                           | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.53             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                  | 17°F<br>-8.3°C           | TC                           | 21887            | 21880            | 21937            | 21968            | 22626            | 23005            | 22997            | 23002            | 23003            | 23027            | 23810            | 23810            | 23814            | 23815            | 23823            | 25372            | 25365            | 25367            | 25366            | 25372            |
|                  |                          | S/T                          | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                           | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             |
|                  | 23°F<br>-5.0°C           | TC                           | 21729            | 21731            | 21820            | 21859            | 22577            | 22870            | 22869            | 22873            | 22873            | 22910            | 23689            | 23688            | 23690            | 23691            | 23696            | 25258            | 25250            | 25252            | 25250            | 25254            |
|                  |                          | S/T                          | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                           | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                  | 35°F<br>1.7°C            | TC                           | 21620            | 21618            | 21619            | 21619            | 21897            | 22695            | 22691            | 22689            | 22689            | 22690            | 23449            | 23447            | 23443            | 23443            | 23442            | 24859            | 24853            | 24848            | 24847            | 24846            |
|                  |                          | S/T                          | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                           | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |
|                  | 41°F<br>5.0°C            | TC                           | 20906            | 20956            | 20956            | 20963            | 21308            | 21993            | 21988            | 21987            | 21987            | 21988            | 22720            | 22718            | 22714            | 22714            | 22713            | 24077            | 24071            | 24066            | 24065            | 24064            |
|                  |                          | S/T                          | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                           | 1.33             | 1.33             | 1.33             | 1.33             | 1.36             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                  | 47°F<br>8.3°C            | TC                           | 20293            | 20292            | 20292            | 20312            | 20712            | 21289            | 21285            | 21283            | 21283            | 21284            | 21991            | 21988            | 21985            | 21984            | 21984            | 23297            | 23291            | 23287            | 23286            | 23284            |
|                  |                          | S/T                          | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                           | 1.26             | 1.26             | 1.26             | 1.26             | 1.30             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                  | 50°F<br>10.0°C           | TC                           | 19568            | 19651            | 20206            | 20321            | 21089            | 20730            | 20742            | 20748            | 20769            | 21115            | 21571            | 21583            | 21596            | 21598            | 21629            | 23178            | 23169            | 23196            | 23202            | 23234            |
|                  |                          | S/T                          | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                           | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                  | 59°F<br>15.0°C           | TC                           | 18423            | 18555            | 19210            | 19325            | 20093            | 19576            | 19585            | 19615            | 19633            | 20119            | 20409            | 20420            | 20429            | 20431            | 20480            | 22011            | 22002            | 22024            | 22028            | 22052            |
|                  |                          | S/T                          | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                           | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                  | 68°F<br>20.0°C           | TC                           | 17297            | 17588            | 18227            | 18341            | 19102            | 18429            | 18436            | 18487            | 18510            | 19127            | 19246            | 19257            | 19263            | 19264            | 19338            | 20821            | 20812            | 20832            | 20836            | 20853            |
|                  |                          | S/T                          | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                           | 1.37             | 1.37             | 1.38             | 1.38             | 1.39             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                  | 77°F<br>25.0°C           | TC                           | 16153            | 16530            | 17164            | 17276            | 18032            | 17270            | 17278            | 17345            | 17373            | 18055            | 18072            | 18087            | 18096            | 18097            | 18191            | 19622            | 19613            | 19644            | 19649            | 19671            |
|                  |                          | S/T                          | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                           | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                  | 82°F<br>27.8°C           | TC                           | 16026            | 16462            | 17110            | 17225            | 17998            | 17150            | 17159            | 17242            | 17276            | 18022            | 17965            | 17984            | 17994            | 17995            | 18109            | 19543            | 19547            | 19571            | 19577            | 19602            |
|                  |                          | S/T                          | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                           | 1.39             | 1.40             | 1.40             | 1.40             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                  | 86°F<br>30.0°C           | TC                           | 16547            | 17069            | 17753            | 17874            | 18689            | 17718            | 17727            | 17832            | 17880            | 18714            | 18572            | 18592            | 18601            | 18602            | 18746            | 20228            | 20229            | 20259            | 20264            | 20288            |
|                  |                          | S/T                          | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                           | 1.45             | 1.45             | 1.46             | 1.46             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.49             | 1.49             | 1.49             | 1.49             | 1.48             |
|                  | 95°F<br>35.0°C           | TC                           | 17950            | 17954            | 18053            | 18099            | 18845            | 19124            | 19122            | 19127            | 19127            | 19161            | 19968            | 19967            | 19967            | 19968            | 19977            | 21595            | 21588            | 21581            | 21591            | 21585            |
|                  |                          | S/T                          | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                           | 1.52             | 1.52             | 1.52             | 1.52             | 1.55             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |                  |                  |                  |                  |                  |

Table 6: COOLING PERFORMANCE 18K - NON-DUCTED (Continued)

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>OR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|-----------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       |                                |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                       |                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1006                  | -13°F<br>-25.0°C               | TC               | 20158            | 20151            | 20145            | 20262            | 20859            | 21045            | 21034            | 21024            | 21023            | 21008            | 21673            | 21662            | 21648            | 21645            | 21630            | 22863            | 22857            | 22840            | 22834            | 22800            |                  |
|                       |                                | S/T              | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                       |                                | PI               | 1.67             | 1.67             | 1.67             | 1.67             | 1.66             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |                  |
|                       | -4°F<br>-20.0°C                | TC               | 21708            | 21701            | 21695            | 21821            | 22463            | 22664            | 22652            | 22642            | 22640            | 22624            | 23341            | 23328            | 23313            | 23310            | 23294            | 24621            | 24615            | 24597            | 24591            | 24554            |                  |
|                       |                                | S/T              | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                       |                                | PI               | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             |                  |
|                       | 0°F<br>-17.8°C                 | TC               | 22425            | 22415            | 22502            | 22673            | 23301            | 23403            | 23385            | 23371            | 23369            | 23365            | 24089            | 24075            | 24053            | 24050            | 24028            | 25387            | 25380            | 25381            | 25384            | 25402            |                  |
|                       |                                | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                       |                                | PI               | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |                  |
|                       | 5°F<br>-15.0°C                 | TC               | 23084            | 23105            | 23417            | 23524            | 24243            | 24182            | 24187            | 24190            | 24190            | 24309            | 24973            | 24971            | 24978            | 24979            | 24982            | 26466            | 26458            | 26458            | 26460            | 26475            |                  |
|                       |                                | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                       |                                | PI               | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |                  |
|                       | 14°F<br>-10.0°C                | TC               | 23977            | 23968            | 24067            | 24278            | 25031            | 25181            | 25166            | 25154            | 25152            | 25139            | 26051            | 26038            | 26018            | 26015            | 25993            | 27689            | 27680            | 27660            | 27654            | 27612            |                  |
|                       |                                | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                       |                                | PI               | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |                  |
|                       | 17°F<br>-8.3°C                 | TC               | 24304            | 24310            | 24608            | 24750            | 25546            | 25524            | 25526            | 25532            | 25532            | 25653            | 26338            | 26348            | 26365            | 26366            | 26373            | 28090            | 28081            | 28084            | 28089            | 28115            |                  |
|                       |                                | S/T              | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                       |                                | PI               | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             |                  |
|                       | 23°F<br>-5.0°C                 | TC               | 24091            | 24125            | 24518            | 24638            | 25443            | 25328            | 25334            | 25338            | 25338            | 25488            | 26221            | 26220            | 26228            | 26229            | 26234            | 27912            | 27903            | 27904            | 27908            | 27927            |                  |
|                       |                                | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                       |                                | PI               | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |                  |
|                       | 35°F<br>1.7°C                  | TC               | 24000            | 24001            | 24047            | 24074            | 24693            | 25151            | 25148            | 25149            | 25150            | 25150            | 25960            | 25958            | 25955            | 25955            | 25958            | 27463            | 27457            | 27451            | 27455            | 27450            |                  |
|                       |                                | S/T              | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                       |                                | PI               | 1.52             | 1.52             | 1.53             | 1.53             | 1.58             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |                  |
|                       | 41°F<br>5.0°C                  | TC               | 23262            | 23263            | 23327            | 23358            | 24021            | 24373            | 24370            | 24371            | 24371            | 24392            | 25152            | 25150            | 25148            | 25148            | 25151            | 26601            | 26594            | 26589            | 26592            | 26588            |                  |
|                       |                                | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                       |                                | PI               | 1.45             | 1.45             | 1.45             | 1.46             | 1.51             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |                  |
|                       | 47°F<br>8.3°C                  | TC               | 22522            | 22522            | 22608            | 22648            | 23345            | 23593            | 23590            | 23591            | 23591            | 23626            | 24345            | 24342            | 24340            | 24340            | 24342            | 25742            | 25735            | 25733            | 25733            | 25729            |                  |
|                       |                                | S/T              | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                       |                                | PI               | 1.37             | 1.37             | 1.38             | 1.38             | 1.44             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |                  |
|                       | 50°F<br>10.0°C                 | TC               | 21687            | 22041            | 22777            | 22908            | 23785            | 22961            | 22975            | 23049            | 23079            | 23813            | 23865            | 23896            | 23910            | 23911            | 24019            | 25584            | 25597            | 25659            | 25666            | 25700            |                  |
|                       |                                | S/T              | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                       |                                | PI               | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |                  |
|                       | 59°F<br>15.0°C                 | TC               | 20437            | 20929            | 21666            | 21796            | 22673            | 21684            | 21694            | 21802            | 21844            | 22699            | 22585            | 22609            | 22618            | 22619            | 22768            | 24309            | 24316            | 24364            | 24369            | 24393            |                  |
|                       |                                | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                       |                                | PI               | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |                  |
|                       | 68°F<br>20.0°C                 | TC               | 19214            | 19833            | 20563            | 20693            | 21563            | 20415            | 20421            | 20581            | 20715            | 21587            | 21303            | 21321            | 21327            | 21327            | 21570            | 23003            | 23010            | 23047            | 23051            | 23068            |                  |
|                       |                                | S/T              | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                       |                                | PI               | 1.49             | 1.49             | 1.50             | 1.50             | 1.51             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |                  |
|                       | 77°F<br>25.0°C                 | TC               | 17961            | 18650            | 19373            | 19501            | 20363            | 19129            | 19138            | 19358            | 19524            | 20387            | 20003            | 20026            | 20035            | 20058            | 20406            | 21664            | 21684            | 21732            | 21737            | 21761            |                  |
|                       |                                | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                       |                                | PI               | 1.48             | 1.49             | 1.50             | 1.50             | 1.51             | 1.50             | 1.49             | 1.50             | 1.50             | 1.51             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |                  |
|                       | 82°F<br>27.8°C                 | TC               | 17820            | 18576            | 19316            | 19448            | 20332            | 18997            | 19027            | 19340            | 19471            | 20355            | 19885            | 19912            | 19922            | 19953            | 20374            | 21569            | 21597            | 21651            | 21657            | 21682            |                  |
|                       |                                | S/T              | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                       |                                | PI               | 1.51             | 1.52             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |                  |
|                       | 86°F<br>30.0°C                 | TC               | 18388            | 19240            | 20020            | 20158            | 21098            | 19602            | 19643            | 20044            | 20182            | 21114            | 20537            | 20561            | 20594            | 20613            | 21134            | 22302            | 22335            | 22387            | 22393            | 22416            |                  |
|                       |                                | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                       |                                | PI               | 1.57             | 1.58             | 1.59             | 1.59             | 1.60             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.60             | 1.59             | 1.59             | 1.60             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             |                  |
|                       | 95°F<br>35.0°C                 | TC               | 19905            | 19940            | 20368            | 20488            | 21292            | 21178            | 21183            | 21190            | 21191            | 21335            | 22092            | 22095            | 22106            | 22108            | 22118            | 23849            | 23841            | 23843            | 23842            | 23860            |                  |
|                       |                                | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                       |                                | PI               | 1.65             | 1.65             | 1.67             | 1.67             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.71             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.81             | 1.81             | 1.81             | 1                |                  |                  |

Table 6: COOLING PERFORMANCE 18K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1147             | -13°F<br>-25.0°C         | TC               | 22354            | 22343            | 22662            | 22756            | 23382            | 23323            | 23303            | 23289            | 23287            | 23267            | 24020            | 23990            | 23967            | 23964            | 23941            | 25336            | 25330            | 25277            | 25268            | 25215            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 1.82             | 1.82             | 1.82             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 24073            | 24062            | 24405            | 24506            | 25181            | 25117            | 25096            | 25080            | 25078            | 25057            | 25868            | 25835            | 25811            | 25807            | 25782            | 27285            | 27278            | 27222            | 27212            | 27154            |                  |
|                  |                          | S/T              | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 1.89             | 1.89             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.87             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 24872            | 24857            | 25319            | 25424            | 26122            | 25939            | 25910            | 25890            | 25887            | 26147            | 26701            | 26663            | 26630            | 26626            | 26613            | 28137            | 28130            | 28128            | 28132            | 28150            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             |
|                  | 5°F<br>-15.0°C           | TC               | 25585            | 25673            | 26260            | 26381            | 27194            | 26785            | 26792            | 26793            | 26821            | 27221            | 27641            | 27649            | 27654            | 27655            | 27692            | 29263            | 29254            | 29269            | 29272            | 29285            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 26595            | 26581            | 27124            | 27251            | 28096            | 27915            | 27890            | 27871            | 27868            | 28129            | 28871            | 28835            | 28806            | 28801            | 28772            | 30699            | 30690            | 30631            | 30620            | 30555            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 1.84             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 26867            | 26955            | 27578            | 27712            | 28612            | 28205            | 28216            | 28221            | 28245            | 28643            | 29167            | 29178            | 29190            | 29191            | 29227            | 31020            | 31011            | 31007            | 31012            | 31038            |                  |
|                  |                          | S/T              | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.81             | 1.80             | 1.81             | 1.81             | 1.81             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 26701            | 26816            | 27510            | 27646            | 28557            | 28053            | 28062            | 28065            | 28102            | 28587            | 29021            | 29031            | 29038            | 29039            | 29086            | 30858            | 30848            | 30870            | 30875            | 30892            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 1.78             | 1.78             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             |                  |
|                  | 35°F<br>1.7°C            | TC               | 26620            | 26621            | 26777            | 26852            | 27718            | 27864            | 27863            | 27865            | 27866            | 27940            | 28736            | 28734            | 28736            | 28737            | 28739            | 30354            | 30347            | 30346            | 30344            | 30347            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 1.67             | 1.67             | 1.68             | 1.69             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |                  |
|                  | 41°F<br>5.0°C            | TC               | 25800            | 25800            | 26006            | 26186            | 26960            | 27000            | 26999            | 27001            | 27001            | 27096            | 27842            | 27840            | 27842            | 27842            | 27844            | 29404            | 29397            | 29395            | 29394            | 29397            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 1.58             | 1.58             | 1.60             | 1.62             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.69             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             |                  |
|                  | 47°F<br>8.3°C            | TC               | 24979            | 24995            | 25330            | 25444            | 26196            | 26137            | 26136            | 26137            | 26136            | 26257            | 26949            | 26946            | 26948            | 26948            | 26948            | 28457            | 28450            | 28448            | 28446            | 28449            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 1.50             | 1.51             | 1.53             | 1.54             | 1.61             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |                  |
|                  | 50°F<br>10.0°C           | TC               | 24072            | 24735            | 25569            | 25718            | 26715            | 25431            | 25445            | 25621            | 25702            | 26740            | 26423            | 26457            | 26471            | 26473            | 26727            | 28244            | 28319            | 28392            | 28400            | 28436            |                  |
|                  |                          | S/T              | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |                  |
|                  |                          | PI               | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |                  |
|                  | 59°F<br>15.0°C           | TC               | 22699            | 23495            | 24329            | 24477            | 25473            | 24017            | 24049            | 24322            | 24504            | 25499            | 25007            | 25033            | 25041            | 25078            | 25520            | 26853            | 26907            | 26960            | 26966            | 26989            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 1.65             | 1.66             | 1.66             | 1.66             | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             |                  |
|                  | 68°F<br>20.0°C           | TC               | 21324            | 22235            | 23059            | 23206            | 24191            | 22575            | 22626            | 23084            | 23231            | 24215            | 23551            | 23569            | 23611            | 23632            | 24235            | 25377            | 25424            | 25464            | 25468            | 25481            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |                  |
|                  |                          | PI               | 1.63             | 1.64             | 1.65             | 1.65             | 1.66             | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |                  |
|                  | 77°F<br>25.0°C           | TC               | 19943            | 20904            | 21722            | 21867            | 22843            | 21142            | 21210            | 21745            | 21891            | 22866            | 22100            | 22125            | 22181            | 22206            | 22866            | 23869            | 23941            | 23997            | 24003            | 24025            |                  |
|                  |                          | S/T              | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |                  |
|                  |                          | PI               | 1.63             | 1.64             | 1.64             | 1.64             | 1.65             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             |                  |
|                  | 82°F<br>27.8°C           | TC               | 19802            | 20813            | 21652            | 21799            | 22797            | 20984            | 21065            | 21671            | 21823            | 22821            | 21960            | 21988            | 22056            | 22083            | 22841            | 23743            | 23833            | 23895            | 23901            | 23927            |                  |
|                  |                          | S/T              | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |                  |
|                  |                          | PI               | 1.66             | 1.67             | 1.68             | 1.68             | 1.68             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             |                  |
|                  | 86°F<br>30.0°C           | TC               | 20543            | 21568            | 22451            | 22607            | 23660            | 21664            | 21764            | 22475            | 22633            | 23684            | 22691            | 22717            | 22800            | 22833            | 23705            | 24565            | 24660            | 24719            | 24725            | 24748            |                  |
|                  |                          | S/T              | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |                  |
|                  |                          | PI               | 1.73             | 1.74             | 1.75             | 1.75             | 1.76             | 1.74             | 1.74             | 1.75             | 1.75             | 1.76             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |                  |
|                  | 95°F<br>35.0°C           | TC               | 22063            | 22182            | 22899            | 23034            | 23945            | 23448            | 23462            | 23469            | 23497            | 23975            | 24454            | 24459            | 24474            | 24477            | 24517            | 26350            | 26340            | 26346            | 26353            | 26389            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 1.81             | 1.81             | 1.84             | 1.85             | 1.88             | 1.86             | 1.86             | 1.86             | 1.87             | 1.88             | 1.91             | 1.91</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 7: COOLING PERFORMANCE24K - NON-DUCTED

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C)<br>ID DB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|-----------------------|--------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       |                          |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                       |                          |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 529                   | -13°F<br>-25.0°C         | TC                                   | 17787            | 17784            | 18621            | 18616            | 18613            | 18613            | 18609            | 19208            | 19203            | 19199            | 19198            | 19194            | 20309            | 20304            | 20299            | 20299            | 20292            | 17787            | 17784            | 18621            |
|                       |                          | S/T                                  | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             | 0.88             | 0.97             | 0.59             |
|                       |                          | PI                                   | 1.75             | 1.75             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.71             | 1.71             | 1.71             | 1.71             | 1.75             | 1.75             | 1.73             |
|                       | -4°F<br>-20.0°C          | TC                                   | 19156            | 19152            | 20053            | 20048            | 20045            | 20044            | 20040            | 20686            | 20680            | 20675            | 20675            | 20670            | 21872            | 21866            | 21861            | 21860            | 21853            | 19156            | 19152            | 20053            |
|                       |                          | S/T                                  | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             | 0.89             | 0.97             | 0.60             |
|                       |                          | PI                                   | 1.81             | 1.81             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.81             | 1.81             | 1.79             |
|                       | 0°F<br>-17.8°C           | TC                                   | 19777            | 19772            | 20697            | 20693            | 20688            | 20687            | 20682            | 21343            | 21337            | 21332            | 21331            | 21324            | 22547            | 22541            | 22536            | 22536            | 22527            | 19777            | 19772            | 20697            |
|                       |                          | S/T                                  | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             | 0.90             | 0.98             | 0.60             |
|                       |                          | PI                                   | 1.82             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.81             |
|                       | 5°F<br>-15.0°C           | TC                                   | 20405            | 20710            | 21424            | 21421            | 21420            | 21420            | 21422            | 22157            | 22156            | 22152            | 22152            | 22154            | 23561            | 23555            | 23550            | 23549            | 23549            | 20405            | 20710            | 21424            |
|                       |                          | S/T                                  | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             | 0.91             | 1.00             | 0.60             |
|                       |                          | PI                                   | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.84             | 1.84             | 1.84             |
|                       | 14°F<br>-10.0°C          | TC                                   | 20362            | 20461            | 21437            | 21431            | 21427            | 21427            | 21423            | 22200            | 22195            | 22189            | 22189            | 22184            | 23651            | 23644            | 23639            | 23637            | 23630            | 20362            | 20461            | 21437            |
|                       |                          | S/T                                  | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             | 0.90             | 0.99             | 0.60             |
|                       |                          | PI                                   | 1.82             | 1.82             | 1.80             | 1.80             | 1.80             | 1.80             | 1.81             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.82             | 1.82             | 1.80             |
|                       | 17°F<br>-8.3°C           | TC                                   | 20362            | 20656            | 21439            | 21433            | 21429            | 21428            | 21428            | 22206            | 22205            | 22202            | 22201            | 22205            | 23705            | 23699            | 23693            | 23692            | 23693            | 20362            | 20656            | 21439            |
|                       |                          | S/T                                  | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             | 0.91             | 1.00             | 0.60             |
|                       |                          | PI                                   | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.79             | 1.79             |
|                       | 23°F<br>-5.0°C           | TC                                   | 20875            | 21256            | 21983            | 21979            | 21979            | 21979            | 21982            | 22791            | 22790            | 22786            | 22786            | 22788            | 24345            | 24338            | 24332            | 24331            | 24331            | 20875            | 21256            | 21983            |
|                       |                          | S/T                                  | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             | 0.91             | 1.00             | 0.61             |
|                       |                          | PI                                   | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.90             | 1.90             | 1.90             |
|                       | 35°F<br>1.7°C            | TC                                   | 22011            | 22041            | 23155            | 23153            | 23150            | 23149            | 23148            | 23961            | 23956            | 23955            | 23954            | 23951            | 25470            | 25464            | 25460            | 25459            | 25457            | 22011            | 22041            | 23155            |
|                       |                          | S/T                                  | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             | 0.86             | 0.93             | 0.59             |
|                       |                          | PI                                   | 1.96             | 1.97             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 1.96             | 1.97             | 2.07             |
|                       | 41°F<br>5.0°C            | TC                                   | 21601            | 21652            | 22715            | 22713            | 22710            | 22710            | 22708            | 23500            | 23496            | 23494            | 23493            | 23489            | 24970            | 24965            | 24960            | 24959            | 24957            | 21601            | 21652            | 22715            |
|                       |                          | S/T                                  | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             | 0.87             | 0.95             | 0.59             |
|                       |                          | PI                                   | 1.82             | 1.83             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 1.82             | 1.83             | 1.93             |
|                       | 47°F<br>8.3°C            | TC                                   | 21188            | 21261            | 22273            | 22271            | 22268            | 22268            | 22266            | 23039            | 23034            | 23032            | 23032            | 23028            | 24470            | 24464            | 24459            | 24459            | 24456            | 21188            | 21261            | 22273            |
|                       |                          | S/T                                  | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             | 0.88             | 0.96             | 0.59             |
|                       |                          | PI                                   | 1.69             | 1.69             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 1.69             | 1.69             | 1.80             |
|                       | 50°F<br>10.0°C           | TC                                   | 21259            | 22048            | 22156            | 22161            | 22167            | 22168            | 22249            | 23073            | 23075            | 23085            | 23087            | 23096            | 24850            | 24840            | 24844            | 24842            | 24864            | 21259            | 22048            | 22156            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 1.00             | 1.00             | 0.64             |
|                       |                          | PI                                   | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                       | 59°F<br>15.0°C           | TC                                   | 21504            | 22344            | 22265            | 22270            | 22274            | 22275            | 22411            | 23239            | 23234            | 23243            | 23244            | 23251            | 25107            | 25097            | 25099            | 25098            | 25117            | 21504            | 22344            | 22265            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             | 1.00             | 1.00             | 0.65             |
|                       |                          | PI                                   | 1.87             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.90             | 1.90             | 1.90             | 1.90             | 1.89             | 1.87             | 1.88             | 1.88             |
|                       | 68°F<br>20.0°C           | TC                                   | 21782            | 22673            | 22380            | 22384            | 22387            | 22388            | 22657            | 23397            | 23392            | 23401            | 23402            | 23407            | 25353            | 25343            | 25343            | 25342            | 25362            | 21782            | 22673            | 22380            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             | 0.66             |
|                       |                          | PI                                   | 1.87             | 1.88             | 1.88             | 1.87             | 1.87             | 1.87             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.87             | 1.88             | 1.88             |
|                       | 77°F<br>25.0°C           | TC                                   | 21975            | 22921            | 22473            | 22481            | 22486            | 22508            | 22954            | 23548            | 23546            | 23559            | 23561            | 23589            | 25616            | 25604            | 25607            | 25608            | 25637            | 21975            | 22921            | 22473            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             | 1.00             | 1.00             | 0.66             |
|                       |                          | PI                                   | 1.87             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.87             | 1.88             | 1.88             |
|                       | 82°F<br>27.8°C           | TC                                   | 22046            | 23020            | 22460            | 22471            | 22490            | 22510            | 23053            | 23562            | 23563            | 23577            | 23578            | 23619            | 25682            | 25669            | 25674            | 25676            | 25711            | 22046            | 23020            | 22460            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 1.00             | 1.00             | 0.67             |
|                       |                          | PI                                   | 1.89             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.89             | 1.90             | 1.90             |
|                       | 86°F<br>30.0°C           | TC                                   | 22056            | 23048            | 22374            | 22384            | 22415            | 22437            | 23082            | 23487            | 23490            | 23502            | 23504            | 23557            | 25631            | 25619            | 25623            | 25629            | 25661            | 22056            | 23048            | 22374            |
|                       |                          | S/T                                  | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 1.00             | 1.00             | 0.67             |
|                       |                          | PI                                   | 1.92             | 1.93             | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.96             | 1.96             | 1.96             | 1.95             | 1.95             | 1.92             | 1.93             | 1.92             |
|                       | 95°F<br>35.0°C           | TC                                   | 20955            | 21491            | 22332            | 22326            | 22325            | 22325            | 22329            | 23342            | 23340            | 23335            | 23335            | 23335            | 25295            | 25286            | 25279            | 25278            | 25278            | 20955            | 21491            | 22332            |
|                       |                          | S/T                                  | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |                  |                  |



Table 7: COOLING PERFORMANCE24K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |        |
|------------------|--------------------------|------------------|------------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F       | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|                  |                          |                  |                  | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C       | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 1006             | -13°F<br>-25.0°C         | TC               | 23753            | 24453  | 24671  | 24658  | 24647  | 24645          | 24628  | 25408  | 25395  | 25378  | 25375        | 25357  | 26802  | 26795  | 26775  | 26769          | 26729  | 23753  | 24453  | 24671  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.63   | 0.73   | 0.81   | 0.83           | 0.93   | 0.54   | 0.63   | 0.71   | 0.73         | 0.83   | 0.39   | 0.46   | 0.54   | 0.56           | 0.65   | 1.00   | 1.00   | 0.63   |        |
|                  |                          | PI               | 2.18             | 2.17   | 2.17   | 2.17   | 2.17   | 2.17           | 2.17   | 2.16   | 2.16   | 2.16   | 2.16         | 2.16   | 2.17   | 2.17   | 2.17   | 2.17           | 2.17   | 2.18   | 2.17   | 2.17   |        |
|                  | -4°F<br>-20.0°C          | TC               | 25581            | 26334  | 26569  | 26555  | 26543  | 26541          | 26522  | 27362  | 27348  | 27330  | 27327        | 27308  | 28864  | 28856  | 28835  | 28828          | 28785  | 25581  | 26334  | 26569  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.63   | 0.73   | 0.82   | 0.83           | 0.93   | 0.54   | 0.64   | 0.72   | 0.73         | 0.83   | 0.39   | 0.47   | 0.55   | 0.56           | 0.65   | 1.00   | 1.00   | 0.63   |        |
|                  |                          | PI               | 2.26             | 2.25   | 2.24   | 2.25   | 2.25   | 2.25           | 2.25   | 2.24   | 2.24   | 2.24   | 2.24         | 2.24   | 2.24   | 2.25   | 2.25   | 2.25           | 2.25   | 2.25   | 2.26   | 2.25   | 2.24   |
|                  | 0°F<br>-17.8°C           | TC               | 26580            | 27316  | 27435  | 27414  | 27398  | 27396          | 27391  | 28240  | 28223  | 28198  | 28194        | 28169  | 29761  | 29753  | 29754  | 29757          | 29779  | 26580  | 27316  | 27435  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.74   | 0.83   | 0.84           | 0.95   | 0.54   | 0.64   | 0.73   | 0.74         | 0.84   | 0.39   | 0.47   | 0.55   | 0.57           | 0.66   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.28             | 2.27   | 2.27   | 2.27   | 2.27   | 2.27           | 2.27   | 2.27   | 2.27   | 2.28   | 2.28         | 2.28   | 2.29   | 2.29   | 2.29   | 2.29           | 2.29   | 2.30   | 2.28   | 2.27   | 2.27   |
|                  | 5°F<br>-15.0°C           | TC               | 27577            | 28421  | 28349  | 28355  | 28358  | 28358          | 28498  | 29277  | 29274  | 29282  | 29283        | 29286  | 31026  | 31017  | 31017  | 31019          | 31037  | 27577  | 28421  | 28349  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.75   | 0.84   | 0.85           | 0.96   | 0.54   | 0.65   | 0.73   | 0.75         | 0.85   | 0.39   | 0.47   | 0.55   | 0.57           | 0.66   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.30             | 2.31   | 2.30   | 2.30   | 2.31   | 2.31           | 2.31   | 2.32   | 2.32   | 2.32   | 2.32         | 2.32   | 2.36   | 2.36   | 2.36   | 2.36           | 2.36   | 2.30   | 2.31   | 2.30   |        |
|                  | 14°F<br>-10.0°C          | TC               | 27369            | 28218  | 28387  | 28370  | 28357  | 28354          | 28340  | 29368  | 29354  | 29331  | 29327        | 29302  | 31214  | 31205  | 31182  | 31175          | 31127  | 27369  | 28218  | 28387  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.74   | 0.82   | 0.84           | 0.94   | 0.54   | 0.64   | 0.72   | 0.74         | 0.83   | 0.39   | 0.47   | 0.55   | 0.56           | 0.65   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.28             | 2.27   | 2.27   | 2.27   | 2.27   | 2.27           | 2.27   | 2.26   | 2.27   | 2.27   | 2.27         | 2.27   | 2.27   | 2.27   | 2.27   | 2.27           | 2.27   | 2.28   | 2.28   | 2.27   | 2.27   |
|                  | 17°F<br>-8.3°C           | TC               | 27549            | 28436  | 28411  | 28414  | 28420  | 28420          | 28555  | 29317  | 29329  | 29347  | 29349        | 29356  | 31267  | 31257  | 31261  | 31267          | 31296  | 27549  | 28436  | 28411  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.74   | 0.83   | 0.85           | 0.95   | 0.55   | 0.65   | 0.73   | 0.75         | 0.85   | 0.39   | 0.47   | 0.55   | 0.57           | 0.66   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.25             | 2.25   | 2.25   | 2.25   | 2.25   | 2.25           | 2.25   | 2.25   | 2.25   | 2.25   | 2.25         | 2.25   | 2.27   | 2.27   | 2.27   | 2.27           | 2.27   | 2.25   | 2.25   | 2.25   |        |
|                  | 23°F<br>-5.0°C           | TC               | 28293            | 29218  | 29086  | 29093  | 29097  | 29098          | 29270  | 30112  | 30111  | 30120  | 30121        | 30126  | 32053  | 32043  | 32044  | 32049          | 32071  | 28293  | 29218  | 29086  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.65   | 0.75   | 0.84   | 0.86           | 0.97   | 0.54   | 0.65   | 0.74   | 0.75         | 0.85   | 0.39   | 0.47   | 0.56   | 0.57           | 0.66   | 1.00   | 1.00   | 0.65   |        |
|                  |                          | PI               | 2.38             | 2.39   | 2.39   | 2.39   | 2.39   | 2.39           | 2.39   | 2.40   | 2.40   | 2.41   | 2.41         | 2.41   | 2.45   | 2.45   | 2.45   | 2.45           | 2.45   | 2.38   | 2.39   | 2.39   |        |
|                  | 35°F<br>1.7°C            | TC               | 29370            | 30125  | 30685  | 30680  | 30682  | 30683          | 30683  | 31671  | 31668  | 31665  | 31665        | 31669  | 33505  | 33497  | 33490  | 33495          | 33489  | 29370  | 30125  | 30685  |        |
|                  |                          | S/T              | 0.94             | 1.00   | 0.62   | 0.71   | 0.79   | 0.80           | 0.89   | 0.53   | 0.62   | 0.69   | 0.71         | 0.80   | 0.39   | 0.46   | 0.53   | 0.54           | 0.63   | 0.94   | 1.00   | 0.62   |        |
|                  |                          | PI               | 2.47             | 2.54   | 2.60   | 2.60   | 2.60   | 2.60           | 2.61   | 2.72   | 2.72   | 2.72   | 2.72         | 2.72   | 2.95   | 2.95   | 2.95   | 2.95           | 2.95   | 2.47   | 2.54   | 2.60   |        |
|                  | 41°F<br>5.0°C            | TC               | 28846            | 29664  | 30098  | 30095  | 30096  | 30096          | 30122  | 31061  | 31058  | 31055  | 31056        | 31059  | 32849  | 32842  | 32835  | 32838          | 32834  | 28846  | 29664  | 30098  |        |
|                  |                          | S/T              | 0.96             | 1.00   | 0.62   | 0.72   | 0.80   | 0.81           | 0.90   | 0.53   | 0.62   | 0.70   | 0.71         | 0.81   | 0.39   | 0.46   | 0.53   | 0.55           | 0.64   | 0.96   | 1.00   | 0.62   |        |
|                  |                          | PI               | 2.31             | 2.39   | 2.43   | 2.43   | 2.43   | 2.43           | 2.44   | 2.54   | 2.54   | 2.54   | 2.54         | 2.54   | 2.77   | 2.77   | 2.77   | 2.77           | 2.77   | 2.31   | 2.39   | 2.43   |        |
|                  | 47°F<br>8.3°C            | TC               | 28329            | 29200  | 29511  | 29507  | 29508  | 29508          | 29553  | 30451  | 30448  | 30445  | 30446        | 30447  | 32198  | 32190  | 32188  | 32187          | 32182  | 28329  | 29200  | 29511  |        |
|                  |                          | S/T              | 0.97             | 1.00   | 0.63   | 0.72   | 0.81   | 0.82           | 0.91   | 0.53   | 0.63   | 0.71   | 0.72         | 0.82   | 0.39   | 0.46   | 0.54   | 0.55           | 0.64   | 0.97   | 1.00   | 0.63   |        |
|                  |                          | PI               | 2.14             | 2.23   | 2.26   | 2.26   | 2.26   | 2.26           | 2.27   | 2.37   | 2.37   | 2.37   | 2.37         | 2.37   | 2.58   | 2.58   | 2.58   | 2.58           | 2.58   | 2.14   | 2.23   | 2.26   |        |
|                  | 50°F<br>10.0°C           | TC               | 29236            | 30356  | 29304  | 29321  | 29417  | 29454          | 30392  | 30458  | 30497  | 30515  | 30517        | 30655  | 32652  | 32668  | 32747  | 32756          | 32800  | 29236  | 30356  | 29304  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.69   | 0.81   | 0.92   | 0.94           | 1.00   | 0.57   | 0.69   | 0.80   | 0.81         | 0.93   | 0.39   | 0.49   | 0.58   | 0.60           | 0.71   | 1.00   | 1.00   | 0.69   |        |
|                  |                          | PI               | 2.37             | 2.37   | 2.37   | 2.37   | 2.37   | 2.37           | 2.37   | 2.37   | 2.37   | 2.37   | 2.37         | 2.37   | 2.37   | 2.37   | 2.37   | 2.37           | 2.37   | 2.37   | 2.37   | 2.37   |        |
|                  | 59°F<br>15.0°C           | TC               | 29607            | 30799  | 29455  | 29468  | 29615  | 29672          | 30834  | 30678  | 30711  | 30724  | 30725        | 30928  | 33021  | 33030  | 33095  | 33102          | 33135  | 29607  | 30799  | 29455  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.70   | 0.83   | 0.94   | 0.97           | 1.00   | 0.58   | 0.71   | 0.81   | 0.83         | 0.96   | 0.39   | 0.50   | 0.59   | 0.61           | 0.73   | 1.00   | 1.00   | 0.70   |        |
|                  |                          | PI               | 2.37             | 2.37   | 2.37   | 2.37   | 2.37   | 2.37           | 2.37   | 2.37   | 2.37   | 2.37   | 2.37         | 2.37   | 2.39   | 2.39   | 2.39   | 2.39           | 2.39   | 2.37   | 2.37   | 2.37   |        |
|                  | 68°F<br>20.0°C           | TC               | 30014            | 31276  | 29610  | 29619  | 29851  | 30046          | 31311  | 30898  | 30924  | 30933  | 30933        | 31286  | 33364  | 33375  | 33428  | 33434          | 33458  | 30014  | 31276  | 29610  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.72   | 0.85   | 0.97   | 1.00           | 1.00   | 0.59   | 0.72   | 0.84   | 0.86         | 0.99   | 0.40   | 0.50   | 0.61   | 0.62           | 0.75   | 1.00   | 1.00   | 0.72   |        |
|                  |                          | PI               | 2.37             | 2.38   | 2.36   | 2.36   | 2.37   | 2.37           | 2.38   | 2.38   | 2.38   | 2.38   | 2.38         | 2.38   | 2.41   | 2.41   | 2.41   | 2.41           | 2.41   | 2.37   | 2.38   | 2.36   |        |
|                  | 77°F<br>25.0°C           | TC               | 30312            | 31652  | 29734  | 29748  | 30090  | 30348          | 31689  | 31091  | 31127  | 31141  | 31177        | 31718  | 33674  | 33704  | 33779  | 33788          | 33824  | 30312  | 31652  | 29734  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.72   | 0.87   | 0.99   | 1.00           | 1.00   | 0.59   | 0.73   | 0.85   | 0.86         | 1.00   | 0.40   | 0.51   | 0.61   | 0.63           | 0.76   | 1.00   | 1.00   | 0.72   |        |
|                  |                          | PI               | 2.37             | 2.39   | 2.37   | 2.37   | 2.37   | 2.38           | 2.39   | 2.38   | 2.38   | 2.38   | 2.38         | 2.39   | 2.41   | 2.41   | 2.41   | 2.41           | 2.41   | 2.37   | 2.39   | 2.37   |        |
|                  | 82°F<br>27.8°C           | TC               | 30423            | 31807  | 29717  | 29766  | 30254  | 30460          | 31843  | 31108  | 31149  | 31165  | 31214        | 31872  | 33742  | 33785  | 33869  | 33879          | 33919  | 30423  | 31807  | 29717  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.73   | 0.87   | 1.00   | 1.00           | 1.00   | 0.60   | 0.74   | 0.86   | 0.87         | 1.00   | 0.40   | 0.51   | 0.62   | 0.63           | 0.76   | 1.00   | 1.00   | 0.73   |        |
|                  |                          | PI               | 2.39             | 2.41   | 2.39   | 2.39   | 2.39   | 2.39           | 2.41   | 2.40   | 2.40   | 2.40   | 2.40         | 2.41   | 2.43   | 2.43   | 2.42   | 2.42           | 2.42   | 2.39   | 2.41   | 2.39   |        |
|                  | 86°F<br>30.0°C           | TC               | 30409            | 31826  | 29570  | 29632  | 30237  | 30446          | 31851  | 30981  | 31018  | 31066  | 31095        | 31881  | 33644  | 33693  | 33772  | 33780          | 33815  | 30409  | 31826  | 29570  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.74   | 0.88   | 1.00   | 1.00           | 1.00   | 0.60   | 0.75   | 0.86   | 0.88         | 1.00   | 0.40   | 0.51   | 0.62   | 0.64           | 0.77   | 1.00   | 1.00   | 0.74   |        |
|                  |                          | PI               | 2.43             | 2.45   | 2.42   | 2.42   | 2.43   | 2.43           | 2.44   | 2.44   | 2.44   | 2.44   | 2.44         | 2.44   | 2.47   | 2.47   | 2.46   | 2.46           | 2.46   | 2.43   | 2.45   | 2.42   |        |
|                  | 95°F<br>35.0°C           | TC               | 28588            | 29709  | 29551  | 29558  | 29568  | 29569          | 29770  | 30826  | 30830  | 30845  | 30848        | 30862  | 33278  | 33266  | 33270  | 33268          | 33293  | 28588  | 29709  | 29551  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.65   | 0.75   | 0.84   | 0.86           | 0.96   | 0.54   | 0.65   | 0.73   | 0.75         | 0.85   | 0.39   | 0.47   | 0.55   | 0.56           | 0.66   | 1.00   | 1.00   | 0.65   |        |
|                  |                          | PI               | 2.42             | 2.47   | 2.46   | 2.46   | 2.46   | 2.46           | 2.47   | 2.51   | 2.51   | 2.51   | 2.51         | 2.51   | 2.62   | 2.62   | 2.62   | 2.62           | 2.62   | 2.42   | 2.47   | 2.46   |        |
| 104°F<br>40.0°C  | TC                       | 24116            | 25072            | 24706  | 247    |        |        |                |        |        |        |        |              |        |        |        |        |                |        |        |        |        |        |

Table 7: COOLING PERFORMANCE24K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |        |
|------------------|--------------------------|------------------|------------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F       | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|                  |                          |                  |                  | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C       | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 1147             | -13°F<br>-25.0°C         | TC               | 27703            | 28465  | 28393  | 28369  | 28352  | 28349          | 28325  | 29242  | 29205  | 29177  | 29173        | 29145  | 30844  | 30836  | 30773  | 30761          | 30696  | 27703  | 28465  | 28393  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.65   | 0.75   | 0.85   | 0.86           | 0.97   | 0.55   | 0.65   | 0.74   | 0.76         | 0.86   | 0.39   | 0.47   | 0.56   | 0.57           | 0.67   | 1.00   | 1.00   | 0.65   |        |
|                  |                          | PI               | 2.47             | 2.47   | 2.46   | 2.47   | 2.47   | 2.47           | 2.47   | 2.46   | 2.46   | 2.46   | 2.46         | 2.46   | 2.48   | 2.48   | 2.48   | 2.48           | 2.48   | 2.47   | 2.47   | 2.46   |        |
|                  | -4°F<br>-20.0°C          | TC               | 29834            | 30655  | 30577  | 30552  | 30532  | 30530          | 30504  | 31491  | 31452  | 31422  | 31417        | 31387  | 33217  | 33208  | 33140  | 33127          | 33057  | 29834  | 30655  | 30577  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.65   | 0.76   | 0.85   | 0.87           | 0.98   | 0.55   | 0.65   | 0.74   | 0.76         | 0.86   | 0.39   | 0.48   | 0.56   | 0.57           | 0.67   | 1.00   | 1.00   | 0.65   |        |
|                  |                          | PI               | 2.56             | 2.55   | 2.55   | 2.55   | 2.56   | 2.56           | 2.56   | 2.55   | 2.55   | 2.55   | 2.55         | 2.55   | 2.57   | 2.57   | 2.57   | 2.57           | 2.57   | 2.56   | 2.55   | 2.55   |        |
|                  | 0°F<br>-17.8°C           | TC               | 30951            | 31801  | 31578  | 31543  | 31518  | 31515          | 31832  | 32506  | 32460  | 32419  | 32415        | 32399  | 34254  | 34246  | 34243  | 34248          | 34270  | 30951  | 31801  | 31578  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.66   | 0.77   | 0.86   | 0.88           | 1.00   | 0.55   | 0.66   | 0.75   | 0.77         | 0.87   | 0.39   | 0.48   | 0.57   | 0.58           | 0.68   | 1.00   | 1.00   | 0.66   |        |
|                  |                          | PI               | 2.59             | 2.59   | 2.59   | 2.59   | 2.59   | 2.59           | 2.59   | 2.59   | 2.59   | 2.59   | 2.59         | 2.59   | 2.62   | 2.62   | 2.62   | 2.62           | 2.62   | 2.59   | 2.59   | 2.59   |        |
|                  | 5°F<br>-15.0°C           | TC               | 32116            | 33106  | 32608  | 32616  | 32618  | 32652          | 33139  | 33651  | 33659  | 33666  | 33667        | 33712  | 35625  | 35614  | 35632  | 35636          | 35652  | 32116  | 33106  | 32608  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.66   | 0.78   | 0.87   | 0.88           | 1.00   | 0.56   | 0.67   | 0.76   | 0.78         | 0.88   | 0.39   | 0.48   | 0.57   | 0.59           | 0.69   | 1.00   | 1.00   | 0.66   |        |
|                  |                          | PI               | 2.62             | 2.63   | 2.62   | 2.62   | 2.62   | 2.62           | 2.63   | 2.64   | 2.64   | 2.64   | 2.64         | 2.64   | 2.70   | 2.70   | 2.70   | 2.70           | 2.70   | 2.62   | 2.63   | 2.62   |        |
|                  | 14°F<br>-10.0°C          | TC               | 31902            | 32892  | 32680  | 32651  | 32629  | 32625          | 32930  | 33799  | 33757  | 33723  | 33717        | 33683  | 35939  | 35928  | 35859  | 35847          | 35770  | 31902  | 32892  | 32680  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.65   | 0.76   | 0.86   | 0.87           | 1.00   | 0.55   | 0.66   | 0.75   | 0.76         | 0.87   | 0.39   | 0.48   | 0.56   | 0.57           | 0.67   | 1.00   | 1.00   | 0.65   |        |
|                  |                          | PI               | 2.59             | 2.58   | 2.58   | 2.58   | 2.58   | 2.58           | 2.58   | 2.58   | 2.58   | 2.58   | 2.58         | 2.58   | 2.58   | 2.59   | 2.59   | 2.59           | 2.59   | 2.58   | 2.58   | 2.58   |        |
|                  | 17°F<br>-8.3°C           | TC               | 32033            | 33074  | 32602  | 32616  | 32622  | 32649          | 33109  | 33715  | 33728  | 33741  | 33743        | 33784  | 35857  | 35847  | 35842  | 35848          | 35878  | 32033  | 33074  | 32602  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.66   | 0.77   | 0.87   | 0.88           | 1.00   | 0.55   | 0.66   | 0.76   | 0.77         | 0.87   | 0.39   | 0.48   | 0.57   | 0.58           | 0.68   | 1.00   | 1.00   | 0.66   |        |
|                  |                          | PI               | 2.56             | 2.56   | 2.56   | 2.56   | 2.56   | 2.56           | 2.56   | 2.56   | 2.56   | 2.56   | 2.56         | 2.56   | 2.58   | 2.58   | 2.58   | 2.58           | 2.58   | 2.56   | 2.56   | 2.56   |        |
|                  | 23°F<br>-5.0°C           | TC               | 32969            | 34055  | 33455  | 33465  | 33469  | 33512          | 34092  | 34609  | 34621  | 34630  | 34630        | 34686  | 36800  | 36788  | 36814  | 36819          | 36840  | 32969  | 34055  | 33455  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.66   | 0.78   | 0.88   | 0.89           | 1.00   | 0.56   | 0.67   | 0.76   | 0.78         | 0.89   | 0.39   | 0.48   | 0.57   | 0.59           | 0.69   | 1.00   | 1.00   | 0.66   |        |
|                  |                          | PI               | 2.71             | 2.73   | 2.72   | 2.72   | 2.72   | 2.72           | 2.73   | 2.74   | 2.74   | 2.74   | 2.74         | 2.74   | 2.79   | 2.79   | 2.79   | 2.79           | 2.79   | 2.71   | 2.73   | 2.72   |        |
|                  | 35°F<br>1.7°C            | TC               | 34019            | 35116  | 35302  | 35300  | 35303  | 35303          | 35397  | 36407  | 36404  | 36406  | 36407        | 36411  | 38457  | 38447  | 38446  | 38444          | 38447  | 34019  | 35116  | 35302  |        |
|                  |                          | S/T              | 0.99             | 1.00   | 0.63   | 0.73   | 0.82   | 0.83           | 0.93   | 0.54   | 0.63   | 0.72   | 0.73         | 0.83   | 0.39   | 0.46   | 0.54   | 0.56           | 0.65   | 0.99   | 1.00   | 0.63   |        |
|                  |                          | PI               | 2.83             | 2.94   | 2.96   | 2.96   | 2.96   | 2.96           | 2.98   | 3.09   | 3.09   | 3.09   | 3.09         | 3.09   | 3.36   | 3.36   | 3.36   | 3.36           | 3.36   | 2.83   | 2.94   | 2.96   |        |
|                  | 41°F<br>5.0°C            | TC               | 33582            | 34574  | 34625  | 34624  | 34626  | 34626          | 34748  | 35705  | 35703  | 35705  | 35705        | 35708  | 37709  | 37699  | 37697  | 37695          | 37699  | 33582  | 34574  | 34625  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.74   | 0.83   | 0.84           | 0.94   | 0.54   | 0.64   | 0.72   | 0.74         | 0.84   | 0.39   | 0.47   | 0.55   | 0.56           | 0.66   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.66             | 2.76   | 2.77   | 2.77   | 2.77   | 2.77           | 2.78   | 2.89   | 2.89   | 2.90   | 2.90         | 2.90   | 3.15   | 3.15   | 3.15   | 3.15           | 3.15   | 2.66   | 2.76   | 2.77   |        |
|                  | 47°F<br>8.3°C            | TC               | 33050            | 34027  | 33950  | 33949  | 33950  | 33949          | 34107  | 35004  | 35001  | 35004  | 35003        | 35003  | 36964  | 36955  | 36952  | 36950          | 36954  | 33050  | 34027  | 33950  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.64   | 0.75   | 0.84   | 0.85           | 0.96   | 0.54   | 0.65   | 0.73   | 0.75         | 0.85   | 0.39   | 0.47   | 0.55   | 0.57           | 0.67   | 1.00   | 1.00   | 0.64   |        |
|                  |                          | PI               | 2.48             | 2.59   | 2.58   | 2.58   | 2.58   | 2.58           | 2.59   | 2.70   | 2.70   | 2.70   | 2.70         | 2.70   | 2.94   | 2.94   | 2.94   | 2.94           | 2.94   | 2.48   | 2.59   | 2.58   |        |
|                  | 50°F<br>10.0°C           | TC               | 34085            | 35406  | 33705  | 33723  | 33957  | 34063          | 35440  | 35020  | 35065  | 35084  | 35086        | 35423  | 37433  | 37532  | 37629  | 37640          | 37687  | 34085  | 35406  | 33705  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.71   | 0.85   | 0.96   | 0.99           | 1.00   | 0.59   | 0.72   | 0.83   | 0.85         | 0.99   | 0.40   | 0.50   | 0.60   | 0.62           | 0.74   | 1.00   | 1.00   | 0.71   |        |
|                  |                          | PI               | 2.70             | 2.70   | 2.70   | 2.70   | 2.70   | 2.70           | 2.70   | 2.70   | 2.70   | 2.70   | 2.70         | 2.70   | 2.70   | 2.70   | 2.69   | 2.69           | 2.69   | 2.70   | 2.70   | 2.70   |        |
|                  | 59°F<br>15.0°C           | TC               | 34528            | 35933  | 33878  | 33925  | 34309  | 34565          | 35969  | 35276  | 35312  | 35324  | 35375        | 35998  | 37879  | 37955  | 38031  | 38039          | 38071  | 34528  | 35933  | 33878  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.73   | 0.86   | 1.00   | 1.00           | 1.00   | 0.60   | 0.73   | 0.85   | 0.86         | 1.00   | 0.40   | 0.51   | 0.61   | 0.63           | 0.76   | 1.00   | 1.00   | 0.73   |        |
|                  |                          | PI               | 2.70             | 2.71   | 2.69   | 2.69   | 2.70   | 2.70           | 2.71   | 2.70   | 2.70   | 2.70   | 2.70         | 2.71   | 2.72   | 2.72   | 2.72   | 2.72           | 2.72   | 2.70   | 2.71   | 2.69   |        |
|                  | 68°F<br>20.0°C           | TC               | 34953            | 36436  | 34003  | 34080  | 34770  | 34991          | 36472  | 35473  | 35500  | 35564  | 35595        | 36502  | 38223  | 38294  | 38354  | 38360          | 38380  | 34953  | 36436  | 34003  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.74   | 0.89   | 1.00   | 1.00           | 1.00   | 0.61   | 0.75   | 0.87   | 0.89         | 1.00   | 0.40   | 0.51   | 0.63   | 0.65           | 0.78   | 1.00   | 1.00   | 0.74   |        |
|                  |                          | PI               | 2.70             | 2.72   | 2.69   | 2.69   | 2.70   | 2.70           | 2.72   | 2.71   | 2.71   | 2.71   | 2.71         | 2.72   | 2.75   | 2.74   | 2.74   | 2.74           | 2.74   | 2.70   | 2.72   | 2.69   |        |
|                  | 77°F<br>25.0°C           | TC               | 35296            | 36873  | 34127  | 34235  | 35100  | 35335          | 36910  | 35673  | 35713  | 35804  | 35844        | 36941  | 38528  | 38645  | 38734  | 38744          | 38780  | 35296  | 36873  | 34127  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.75   | 0.90   | 1.00   | 1.00           | 1.00   | 0.61   | 0.76   | 0.88   | 0.90         | 1.00   | 0.40   | 0.52   | 0.63   | 0.65           | 0.79   | 1.00   | 1.00   | 0.75   |        |
|                  |                          | PI               | 2.71             | 2.72   | 2.70   | 2.70   | 2.71   | 2.71           | 2.72   | 2.71   | 2.71   | 2.71   | 2.71         | 2.72   | 2.75   | 2.74   | 2.74   | 2.74           | 2.74   | 2.71   | 2.72   | 2.70   |        |
|                  | 82°F<br>27.8°C           | TC               | 35413            | 37035  | 34089  | 34221  | 35205  | 35453          | 37074  | 35675  | 35720  | 35831  | 35875        | 37106  | 38572  | 38717  | 38818  | 38828          | 38870  | 35413  | 37035  | 34089  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.76   | 0.91   | 1.00   | 1.00           | 1.00   | 0.62   | 0.77   | 0.89   | 0.92         | 1.00   | 0.40   | 0.52   | 0.64   | 0.66           | 0.80   | 1.00   | 1.00   | 0.76   |        |
|                  |                          | PI               | 2.73             | 2.74   | 2.72   | 2.72   | 2.73   | 2.73           | 2.74   | 2.74   | 2.73   | 2.73   | 2.73         | 2.74   | 2.77   | 2.76   | 2.76   | 2.76           | 2.76   | 2.73   | 2.74   | 2.72   |        |
|                  | 86°F<br>30.0°C           | TC               | 35415            | 37065  | 33938  | 34094  | 35209  | 35456          | 37103  | 35546  | 35587  | 35718  | 35769        | 37135  | 38483  | 38632  | 38723  | 38733          | 38769  | 35415  | 37065  | 33938  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.77   | 0.93   | 1.00   | 1.00           | 1.00   | 0.62   | 0.78   | 0.91   | 0.93         | 1.00   | 0.40   | 0.52   | 0.64   | 0.66           | 0.81   | 1.00   | 1.00   | 0.77   |        |
|                  |                          | PI               | 2.77             | 2.79   | 2.76   | 2.76   | 2.77   | 2.77           | 2.79   | 2.77   | 2.77   | 2.77   | 2.77         | 2.79   | 2.81   | 2.81   | 2.80   | 2.80           | 2.80   | 2.77   | 2.79   | 2.76   |        |
|                  | 95°F<br>35.0°C           | TC               | 33377            | 34696  | 33976  | 33996  | 34007  | 34047          | 34740  | 35434  | 35442  | 35464  | 35467        | 35526  | 38182  | 38168  | 38175  | 38186          | 38238  | 33377  | 34696  | 33976  |        |
|                  |                          | S/T              | 1.00             | 1.00   | 0.66   | 0.78   | 0.88   | 0.89           | 1.00   | 0.56   | 0.67   | 0.76   | 0.78         | 0.88   | 0.39   | 0.48   | 0.57   | 0.58           | 0.68   | 1.00   | 1.00   |        |        |

Table 8: COOLING PERFORMANCE30K - NON-DUCTED

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C)<br>ID DB<br>(°F) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|-----------------------|--------------------------|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       |                          |                                   | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                       |                          |                                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882                   | -13°F<br>-25.0°C         | TC                                | 22536            | 22532            | 22529            | 22529            | 22525            | 23585            | 23578            | 23575            | 23574            | 23569            | 24328            | 24322            | 24316            | 24315            | 24310            | 25723            | 25717            | 25711            | 25709            | 25701            |
|                       |                          | S/T                               | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                       |                          | PI                                | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             |
|                       | -4°F<br>-20.0°C          | TC                                | 24269            | 24266            | 24262            | 24262            | 24258            | 25399            | 25392            | 25388            | 25387            | 25382            | 26200            | 26193            | 26187            | 26186            | 26180            | 27702            | 27695            | 27688            | 27687            | 27678            |
|                       |                          | S/T                               | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                       |                          | PI                                | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             |
|                       | 0°F<br>-17.8°C           | TC                                | 25059            | 25054            | 25050            | 25049            | 25042            | 26214            | 26208            | 26203            | 26202            | 26195            | 27032            | 27024            | 27018            | 27017            | 27009            | 28557            | 28549            | 28544            | 28543            | 28532            |
|                       |                          | S/T                               | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                       |                          | PI                                | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             |
|                       | 5°F<br>-15.0°C           | TC                                | 25845            | 25845            | 25845            | 25845            | 26231            | 27135            | 27131            | 27130            | 27130            | 27132            | 28063            | 28061            | 28057            | 28057            | 28059            | 29842            | 29834            | 29827            | 29826            | 29826            |
|                       |                          | S/T                               | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             |
|                       | 14°F<br>-10.0°C          | TC                                | 26187            | 26184            | 26181            | 26180            | 26308            | 27562            | 27555            | 27551            | 27550            | 27545            | 28544            | 28538            | 28530            | 28530            | 28523            | 30410            | 30401            | 30394            | 30392            | 30383            |
|                       |                          | S/T                               | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                       |                          | PI                                | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             |
|                       | 17°F<br>-8.3°C           | TC                                | 26321            | 26316            | 26312            | 26311            | 26691            | 27702            | 27695            | 27690            | 27689            | 27689            | 28693            | 28692            | 28688            | 28687            | 28692            | 30631            | 30622            | 30615            | 30613            | 30615            |
|                       |                          | S/T                               | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             |
|                       | 23°F<br>-5.0°C           | TC                                | 26864            | 26865            | 26865            | 26882            | 27373            | 28310            | 28304            | 28304            | 28305            | 28308            | 29350            | 29348            | 29344            | 29343            | 29346            | 31351            | 31342            | 31334            | 31333            | 31333            |
|                       |                          | S/T                               | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                       | 35°F<br>1.7°C            | TC                                | 28172            | 28170            | 28168            | 28167            | 28206            | 29631            | 29628            | 29625            | 29624            | 29622            | 30663            | 30657            | 30655            | 30654            | 30650            | 32594            | 32586            | 32580            | 32579            | 32578            |
|                       |                          | S/T                               | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                       |                          | PI                                | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             |
|                       | 41°F<br>5.0°C            | TC                                | 28040            | 28037            | 28036            | 28035            | 28101            | 29481            | 29478            | 29474            | 29474            | 29472            | 30500            | 30494            | 30491            | 30491            | 30486            | 32408            | 32401            | 32394            | 32393            | 32391            |
|                       |                          | S/T                               | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                       |                          | PI                                | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                       | 47°F<br>8.3°C            | TC                                | 27904            | 27900            | 27899            | 27898            | 27995            | 29328            | 29325            | 29321            | 29320            | 29318            | 30336            | 30329            | 30327            | 30326            | 30322            | 32220            | 32213            | 32206            | 32206            | 32202            |
|                       |                          | S/T                               | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                       |                          | PI                                | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |
|                       | 50°F<br>10.0°C           | TC                                | 27021            | 27025            | 27274            | 27496            | 28516            | 28656            | 28662            | 28670            | 28671            | 28777            | 29841            | 29844            | 29857            | 29860            | 29872            | 32140            | 32128            | 32132            | 32130            | 32158            |
|                       |                          | S/T                               | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                       |                          | PI                                | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             |
|                       | 59°F<br>15.0°C           | TC                                | 25621            | 25660            | 26165            | 26318            | 27347            | 27250            | 27256            | 27261            | 27262            | 27429            | 28443            | 28436            | 28447            | 28449            | 28457            | 30729            | 30717            | 30719            | 30718            | 30741            |
|                       |                          | S/T                               | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                       |                          | PI                                | 2.09             | 2.09             | 2.09             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                       | 68°F<br>20.0°C           | TC                                | 24248            | 24327            | 25014            | 25167            | 26196            | 25858            | 25862            | 25866            | 25866            | 26177            | 27032            | 27027            | 27037            | 27038            | 27044            | 29293            | 29280            | 29281            | 29280            | 29303            |
|                       |                          | S/T                               | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                       |                          | PI                                | 2.27             | 2.27             | 2.28             | 2.28             | 2.30             | 2.29             | 2.29             | 2.29             | 2.29             | 2.30             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                       | 77°F<br>25.0°C           | TC                                | 22848            | 22961            | 23749            | 23904            | 24933            | 24446            | 24455            | 24460            | 24484            | 24969            | 25615            | 25613            | 25627            | 25629            | 25660            | 27865            | 27852            | 27855            | 27856            | 27888            |
|                       |                          | S/T                               | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                       |                          | PI                                | 2.47             | 2.48             | 2.49             | 2.49             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.54             | 2.54             | 2.54             | 2.54             | 2.53             |
|                       | 82°F<br>27.8°C           | TC                                | 22523            | 22668            | 23538            | 23694            | 24740            | 24140            | 24151            | 24172            | 24193            | 24776            | 25323            | 25325            | 25339            | 25341            | 25384            | 27602            | 27588            | 27593            | 27596            | 27633            |
|                       |                          | S/T                               | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                       |                          | PI                                | 2.56             | 2.56             | 2.57             | 2.57             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
|                       | 86°F<br>30.0°C           | TC                                | 22830            | 23029            | 23989            | 24151            | 25237            | 24499            | 24510            | 24543            | 24567            | 25273            | 25717            | 25720            | 25734            | 25735            | 25794            | 28065            | 28051            | 28056            | 28062            | 28097            |
|                       |                          | S/T                               | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                       |                          | PI                                | 2.58             | 2.58             | 2.60             | 2.60             | 2.61             | 2.60             | 2.60             | 2.60             | 2.60             | 2.61             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             |
|                       | 95°F<br>35.0°C           | TC                                | 23878            | 23877            | 23879            | 23906            | 24518            | 25477            | 25471            | 25469            | 25469            | 25474            | 26630            | 26627            | 26622            | 26622            | 26622            | 28858            | 28848            | 28840            | 28839            | 28839            |
|                       |                          | S/T                               | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             |                  |                  |                  |                  |                  |                  |                  |                  |

Table 8: COOLING PERFORMANCE 30K - NON-DUCTED (Continued)

| AIRFLOW<br>W<br>(CFM) | OUTDO<br>OR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |        |
|-----------------------|------------------------------|------------------|------------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|
|                       |                              |                  | ID DB<br>°F (°C) | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F       | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|                       |                              |                  |                  | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C       | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 1147                  | -13°F<br>-25.0°C             | TC               | 26555            | 26549  | 26543  | 26543  | 27088  | 27750          | 27742  | 27735  | 27733  | 27724  | 28597        | 28588  | 28578  | 28576  | 28563  | 30187          | 30179  | 30167  | 30166  | 30147  |        |
|                       |                              | S/T              | 0.75             | 0.84   | 0.92   | 0.93   | 1.00   | 0.61           | 0.70   | 0.78   | 0.79   | 0.88   | 0.52         | 0.61   | 0.69   | 0.70   | 0.79   | 0.38           | 0.46   | 0.53   | 0.54   | 0.62   |        |
|                       |                              | PI               | 2.36             | 2.36   | 2.36   | 2.36   | 2.35   | 2.34           | 2.34   | 2.34   | 2.34   | 2.34   | 2.33         | 2.33   | 2.33   | 2.33   | 2.33   | 2.33           | 2.33   | 2.33   | 2.33   | 2.33   |        |
|                       | -4°F<br>-20.0°C              | TC               | 28597            | 28591  | 28585  | 28585  | 29171  | 29885          | 29876  | 29868  | 29867  | 29857  | 30797        | 30787  | 30777  | 30774  | 30761  | 32509          | 32501  | 32488  | 32487  | 32466  |        |
|                       |                              | S/T              | 0.75             | 0.84   | 0.92   | 0.94   | 1.00   | 0.61           | 0.71   | 0.78   | 0.79   | 0.88   | 0.53         | 0.61   | 0.69   | 0.70   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                              | PI               | 2.44             | 2.45   | 2.45   | 2.45   | 2.43   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   | 2.41         | 2.41   | 2.42   | 2.42   | 2.42   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   |        |
|                       | 0°F<br>-17.8°C               | TC               | 29532            | 29524  | 29518  | 29516  | 30252  | 30849          | 30838  | 30826  | 30824  | 30811  | 31780        | 31767  | 31754  | 31751  | 31731  | 33510          | 33503  | 33500  | 33498  | 33502  |        |
|                       |                              | S/T              | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                              | PI               | 2.46             | 2.47   | 2.47   | 2.47   | 2.46   | 2.45           | 2.45   | 2.45   | 2.45   | 2.45   | 2.45         | 2.45   | 2.45   | 2.45   | 2.45   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 5°F<br>-15.0°C               | TC               | 30430            | 30433  | 30528  | 30571  | 31465  | 31912          | 31911  | 31915  | 31916  | 31954  | 32974        | 32973  | 32975  | 32976  | 32982  | 35001          | 34991  | 34992  | 34990  | 34993  |        |
|                       |                              | S/T              | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                              | PI               | 2.49             | 2.49   | 2.49   | 2.49   | 2.49   | 2.49           | 2.49   | 2.49   | 2.49   | 2.49   | 2.50         | 2.50   | 2.50   | 2.50   | 2.50   | 2.54           | 2.54   | 2.54   | 2.54   | 2.54   |        |
|                       | 14°F<br>-10.0°C              | TC               | 30851            | 30844  | 30838  | 30837  | 31713  | 32427          | 32417  | 32408  | 32406  | 32396  | 33554        | 33543  | 33531  | 33528  | 33513  | 35695          | 35685  | 35671  | 35669  | 35646  |        |
|                       |                              | S/T              | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.89   | 0.53         | 0.62   | 0.69   | 0.71   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                              | PI               | 2.49             | 2.49   | 2.49   | 2.49   | 2.48   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   | 2.47         | 2.47   | 2.47   | 2.47   | 2.47   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 17°F<br>-8.3°C               | TC               | 30988            | 30978  | 31059  | 31102  | 32035  | 32570          | 32559  | 32567  | 32568  | 32602  | 33711        | 33711  | 33716  | 33718  | 33729  | 35923          | 35912  | 35916  | 35914  | 35922  |        |
|                       |                              | S/T              | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                              | PI               | 2.46             | 2.46   | 2.46   | 2.46   | 2.46   | 2.46           | 2.46   | 2.46   | 2.46   | 2.46   | 2.46         | 2.46   | 2.46   | 2.46   | 2.46   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 23°F<br>-5.0°C               | TC               | 31632            | 31635  | 31764  | 31820  | 32865  | 33292          | 33291  | 33297  | 33298  | 33351  | 34484        | 34483  | 34487  | 34488  | 34496  | 36769          | 36758  | 36760  | 36758  | 36763  |        |
|                       |                              | S/T              | 0.77             | 0.87   | 0.95   | 0.97   | 1.00   | 0.62           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.63   | 0.71   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                              | PI               | 2.28             | 2.28   | 2.28   | 2.28   | 2.29   | 2.29           | 2.29   | 2.29   | 2.29   | 2.29   | 2.30         | 2.30   | 2.30   | 2.30   | 2.30   | 2.34           | 2.34   | 2.34   | 2.34   | 2.34   |        |
|                       | 35°F<br>1.7°C                | TC               | 33226            | 33223  | 33224  | 33224  | 33651  | 34878          | 34871  | 34868  | 34868  | 34870  | 36037        | 36034  | 36028  | 36028  | 36026  | 38203          | 38194  | 38187  | 38185  | 38184  |        |
|                       |                              | S/T              | 0.73             | 0.81   | 0.89   | 0.90   | 1.00   | 0.60           | 0.68   | 0.76   | 0.77   | 0.85   | 0.52         | 0.60   | 0.67   | 0.68   | 0.76   | 0.39           | 0.47   | 0.52   | 0.53   | 0.60   |        |
|                       |                              | PI               | 1.81             | 1.81   | 1.81   | 1.81   | 1.84   | 1.92           | 1.92   | 1.92   | 1.92   | 1.92   | 2.00         | 2.00   | 2.00   | 2.00   | 2.00   | 2.17           | 2.17   | 2.17   | 2.17   | 2.17   |        |
|                       | 41°F<br>5.0°C                | TC               | 32983            | 33062  | 33062  | 33072  | 33617  | 34697          | 34691  | 34687  | 34688  | 34689  | 35844        | 35841  | 35835  | 35835  | 35834  | 37985          | 37977  | 37969  | 37967  | 37964  |        |
|                       |                              | S/T              | 0.74             | 0.82   | 0.90   | 0.91   | 1.00   | 0.60           | 0.69   | 0.76   | 0.78   | 0.86   | 0.52         | 0.60   | 0.67   | 0.69   | 0.77   | 0.39           | 0.45   | 0.52   | 0.53   | 0.61   |        |
|                       |                              | PI               | 1.84             | 1.85   | 1.85   | 1.85   | 1.88   | 1.96           | 1.96   | 1.96   | 1.96   | 1.96   | 2.05         | 2.05   | 2.05   | 2.05   | 2.05   | 2.24           | 2.24   | 2.23   | 2.23   | 2.23   |        |
|                       | 47°F<br>8.3°C                | TC               | 32900            | 32898  | 32898  | 32930  | 33579  | 34514          | 34508  | 34506  | 34506  | 34506  | 35652        | 35648  | 35643  | 35642  | 35641  | 37770          | 37761  | 37754  | 37752  | 37749  |        |
|                       |                              | S/T              | 0.74             | 0.83   | 0.91   | 0.92   | 1.00   | 0.61           | 0.70   | 0.77   | 0.78   | 0.87   | 0.52         | 0.61   | 0.68   | 0.69   | 0.78   | 0.39           | 0.45   | 0.52   | 0.53   | 0.62   |        |
|                       |                              | PI               | 1.89             | 1.89   | 1.89   | 1.89   | 1.94   | 2.02           | 2.02   | 2.02   | 2.02   | 2.02   | 2.11         | 2.10   | 2.10   | 2.10   | 2.10   | 2.30           | 2.30   | 2.30   | 2.30   | 2.30   |        |
|                       | 50°F<br>10.0°C               | TC               | 31795            | 31930  | 32832  | 33018  | 34266  | 33683          | 33703  | 33712  | 33747  | 34309  | 35050        | 35070  | 35090  | 35093  | 35144  | 37660          | 37646  | 37690  | 37700  | 37751  |        |
|                       |                              | S/T              | 0.83             | 0.95   | 1.00   | 1.00   | 1.00   | 0.66           | 0.78   | 0.87   | 0.88   | 1.00   | 0.55         | 0.66   | 0.76   | 0.77   | 0.88   | 0.39           | 0.48   | 0.56   | 0.58   | 0.68   |        |
|                       |                              | PI               | 2.18             | 2.18   | 2.18   | 2.18   | 2.18   | 2.18           | 2.18   | 2.18   | 2.18   | 2.18   | 2.18         | 2.18   | 2.18   | 2.18   | 2.18   | 2.18           | 2.18   | 2.18   | 2.18   | 2.18   |        |
|                       | 59°F<br>15.0°C               | TC               | 30150            | 30365  | 31438  | 31626  | 32883  | 32036          | 32051  | 32100  | 32129  | 32925  | 33400        | 33417  | 33433  | 33435  | 33517  | 36022          | 36007  | 36042  | 36050  | 36088  |        |
|                       |                              | S/T              | 0.85             | 0.97   | 1.00   | 1.00   | 1.00   | 0.67           | 0.79   | 0.89   | 0.91   | 1.00   | 0.56         | 0.68   | 0.77   | 0.79   | 0.90   | 0.39           | 0.48   | 0.57   | 0.59   | 0.69   |        |
|                       |                              | PI               | 2.39             | 2.39   | 2.40   | 2.40   | 2.41   | 2.40           | 2.40   | 2.40   | 2.40   | 2.41   | 2.41         | 2.41   | 2.41   | 2.41   | 2.41   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   |        |
|                       | 68°F<br>20.0°C               | TC               | 28534            | 29013  | 30067  | 30255  | 31511  | 30401          | 30413  | 30497  | 30534  | 31551  | 31749        | 31766  | 31776  | 31777  | 31901  | 34346          | 34331  | 34364  | 34371  | 34399  |        |
|                       |                              | S/T              | 0.87             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.81   | 0.91   | 0.93   | 1.00   | 0.57         | 0.69   | 0.79   | 0.81   | 0.93   | 0.39           | 0.49   | 0.58   | 0.60   | 0.71   |        |
|                       |                              | PI               | 2.60             | 2.60   | 2.62   | 2.62   | 2.63   | 2.62           | 2.62   | 2.62   | 2.62   | 2.63   | 2.64         | 2.64   | 2.64   | 2.64   | 2.64   | 2.67           | 2.67   | 2.67   | 2.67   | 2.67   |        |
|                       | 77°F<br>25.0°C               | TC               | 26885            | 27512  | 28566  | 28754  | 30011  | 28744          | 28758  | 28868  | 28915  | 30050  | 30078        | 30104  | 30119  | 30120  | 30276  | 32658          | 32643  | 32694  | 32703  | 32740  |        |
|                       |                              | S/T              | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.82   | 0.93   | 0.95   | 1.00   | 0.57         | 0.70   | 0.80   | 0.82   | 0.94   | 0.39           | 0.49   | 0.59   | 0.60   | 0.72   |        |
|                       |                              | PI               | 2.83             | 2.83   | 2.85   | 2.85   | 2.86   | 2.85           | 2.85   | 2.85   | 2.85   | 2.86   | 2.87         | 2.87   | 2.87   | 2.87   | 2.87   | 2.90           | 2.90   | 2.90   | 2.90   | 2.89   |        |
|                       | 82°F<br>27.8°C               | TC               | 26524            | 27245  | 28317  | 28508  | 29786  | 28383          | 28399  | 28536  | 28592  | 29826  | 29732        | 29765  | 29780  | 29782  | 29970  | 32344          | 32350  | 32390  | 32400  | 32441  |        |
|                       |                              | S/T              | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.70           | 0.83   | 0.94   | 0.96   | 1.00   | 0.58         | 0.70   | 0.81   | 0.83   | 0.96   | 0.39           | 0.49   | 0.59   | 0.61   | 0.72   |        |
|                       |                              | PI               | 2.92             | 2.93   | 2.94   | 2.94   | 2.96   | 2.94           | 2.94   | 2.94   | 2.95   | 2.96   | 2.96         | 2.96   | 2.96   | 2.96   | 2.96   | 2.99           | 2.99   | 2.99   | 2.99   | 2.99   |        |
|                       | 86°F<br>30.0°C               | TC               | 26904            | 27753  | 28866  | 29062  | 30388  | 28808          | 28822  | 28994  | 29071  | 30428  | 30198        | 30230  | 30244  | 30246  | 30480  | 32889          | 32891  | 32940  | 32948  | 32987  |        |
|                       |                              | S/T              | 0.90             | 1.00   | 1.00   | 1.00   | 1.00   | 0.71           | 0.84   | 0.96   | 0.98   | 1.00   | 0.58         | 0.71   | 0.82   | 0.84   | 0.97   | 0.39           | 0.50   | 0.60   | 0.61   | 0.73   |        |
|                       |                              | PI               | 2.95             | 2.96   | 2.97   | 2.98   | 2.99   | 2.97           | 2.97   | 2.97   | 2.98   | 2.99   | 2.99         | 2.99   | 2.99   | 2.99   | 2.99   | 3.03           | 3.03   | 3.02   | 3.02   | 3.02   |        |
|                       | 95°F<br>35.0°C               | TC               | 28128            | 28134  | 28289  | 28361  | 29530  | 29967          | 29963  | 29971  | 29973  | 30026  | 31290        | 31289  | 31288  | 31289  | 31303  | 33840          | 33828  | 33818  | 33833  | 33824  |        |
|                       |                              | S/T              | 0.77             | 0.87   | 0.96   | 0.98   | 1.00   | 0.63           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                              | PI               | 2.91             | 2.91   | 2.91   | 2.92   | 2.97   | 3.00           | 3.00   | 3.00   | 3.00   | 3.00   | 3.06         | 3.06   | 3.06   | 3.06   | 3.06   |                |        |        |        |        |        |

Table 8: COOLING PERFORMANCE 30K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C         | TC               | 31275            | 31264            | 31256            | 31437            | 32363            | 32652            | 32634            | 32620            | 32617            | 32595            | 33627            | 33609            | 33587            | 33583            | 33560            | 35472            | 35463            | 35437            | 35428            | 35375            |                  |
|                  |                          | S/T              | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.71             | 2.71             | 2.71             | 2.71             | 2.70             | 2.69             | 2.69             | 2.69             | 2.70             | 2.70             | 2.69             | 2.69             | 2.69             | 2.69             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 33681            | 33669            | 33660            | 33855            | 34852            | 35164            | 35145            | 35129            | 35126            | 35102            | 36214            | 36195            | 36171            | 36167            | 36142            | 38201            | 38191            | 38162            | 38153            | 38096            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.81             | 2.81             | 2.81             | 2.81             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.78             | 2.78             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             |
|                  | 0°F<br>-17.8°C           | TC               | 34793            | 34778            | 34912            | 35178            | 36152            | 36310            | 36282            | 36261            | 36258            | 36252            | 37375            | 37353            | 37319            | 37314            | 37281            | 39389            | 39377            | 39379            | 39383            | 39413            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.82             | 2.82             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |
|                  | 5°F<br>-15.0°C           | TC               | 35816            | 35848            | 36332            | 36498            | 37614            | 37519            | 37527            | 37531            | 37532            | 37717            | 38747            | 38744            | 38754            | 38755            | 38760            | 41062            | 41050            | 41051            | 41054            | 41076            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             |
|                  | 14°F<br>-10.0°C          | TC               | 36316            | 36302            | 36453            | 36771            | 37913            | 38139            | 38117            | 38098            | 38095            | 38075            | 39457            | 39438            | 39408            | 39402            | 39369            | 41938            | 41925            | 41894            | 41885            | 41821            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.86             | 2.86             | 2.86             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.84             | 2.84             | 2.84             | 2.84             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |
|                  | 17°F<br>-8.3°C           | TC               | 36527            | 36536            | 36984            | 37197            | 38395            | 38361            | 38365            | 38373            | 38374            | 38555            | 39584            | 39600            | 39625            | 39627            | 39637            | 42217            | 42204            | 42209            | 42217            | 42256            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.84             | 2.84             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |
|                  | 23°F<br>-5.0°C           | TC               | 37229            | 37281            | 37887            | 38073            | 39318            | 39140            | 39150            | 39155            | 39156            | 39387            | 40520            | 40518            | 40531            | 40533            | 40539            | 43132            | 43119            | 43121            | 43126            | 43156            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.62             | 2.62             | 2.63             | 2.63             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.66             | 2.66             | 2.66             | 2.66             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |
|                  | 35°F<br>1.7°C            | TC               | 39153            | 39154            | 39230            | 39274            | 40283            | 41031            | 41026            | 41027            | 41029            | 41029            | 42350            | 42347            | 42343            | 42343            | 42348            | 44803            | 44792            | 44783            | 44789            | 44781            |                  |
|                  |                          | S/T              | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI               | 2.08             | 2.08             | 2.09             | 2.09             | 2.16             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
|                  | 41°F<br>5.0°C            | TC               | 38958            | 38959            | 39067            | 39120            | 40230            | 40818            | 40813            | 40815            | 40815            | 40851            | 42124            | 42120            | 42116            | 42117            | 42121            | 44549            | 44539            | 44530            | 44534            | 44528            |                  |
|                  |                          | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 2.13             | 2.13             | 2.14             | 2.15             | 2.22             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.37             | 2.36             | 2.36             | 2.36             | 2.37             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |
|                  | 47°F<br>8.3°C            | TC               | 38760            | 38760            | 38909            | 38977            | 40176            | 40604            | 40599            | 40600            | 40600            | 40661            | 41898            | 41893            | 41890            | 41890            | 41893            | 44302            | 44291            | 44287            | 44286            | 44280            |                  |
|                  |                          | S/T              | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 2.18             | 2.18             | 2.19             | 2.19             | 2.28             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             |
|                  | 50°F<br>10.0°C           | TC               | 37406            | 38017            | 39287            | 39512            | 41026            | 39604            | 39628            | 39756            | 39807            | 41074            | 41164            | 41217            | 41241            | 41243            | 41429            | 44129            | 44151            | 44258            | 44270            | 44329            |                  |
|                  |                          | S/T              | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                  |                          | PI               | 2.52             | 2.52             | 2.52             | 2.52             | 2.51             | 2.52             | 2.52             | 2.52             | 2.52             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             |
|                  | 59°F<br>15.0°C           | TC               | 35504            | 36359            | 37638            | 37865            | 39389            | 37671            | 37687            | 37874            | 37947            | 39434            | 39235            | 39277            | 39293            | 39295            | 39554            | 42231            | 42242            | 42325            | 42335            | 42376            |                  |
|                  |                          | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                  |                          | PI               | 2.76             | 2.76             | 2.77             | 2.77             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.80             | 2.80             | 2.79             | 2.79             | 2.79             | 2.79             |
|                  | 68°F<br>20.0°C           | TC               | 33645            | 34731            | 36009            | 36236            | 37759            | 35748            | 35759            | 36039            | 36274            | 37801            | 37304            | 37335            | 37345            | 37346            | 37771            | 40280            | 40294            | 40358            | 40366            | 40394            |                  |
|                  |                          | S/T              | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                  |                          | PI               | 2.99             | 3.01             | 3.02             | 3.03             | 3.04             | 3.02             | 3.02             | 3.02             | 3.03             | 3.05             | 3.04             | 3.04             | 3.04             | 3.04             | 3.05             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |
|                  | 77°F<br>25.0°C           | TC               | 31734            | 32950            | 34228            | 34455            | 35978            | 33798            | 33813            | 34202            | 34496            | 36020            | 35340            | 35381            | 35397            | 35438            | 36052            | 38276            | 38310            | 38396            | 38405            | 38447            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.26             | 3.28             | 3.29             | 3.29             | 3.31             | 3.29             | 3.29             | 3.29             | 3.29             | 3.31             | 3.31             | 3.30             | 3.30             | 3.30             | 3.31             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             |
|                  | 82°F<br>27.8°C           | TC               | 31308            | 32635            | 33936            | 34167            | 35721            | 33374            | 33428            | 33977            | 34208            | 35761            | 34936            | 34982            | 35000            | 35055            | 35794            | 37894            | 37942            | 38037            | 38048            | 38093            |                  |
|                  |                          | S/T              | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.37             | 3.39             | 3.40             | 3.40             | 3.42             | 3.39             | 3.39             | 3.40             | 3.40             | 3.42             | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.45             | 3.45             | 3.44             | 3.44             | 3.44             | 3.44             |
|                  | 86°F<br>30.0°C           | TC               | 31737            | 33207            | 34555            | 34793            | 36414            | 33833            | 33904            | 34596            | 34835            | 36443            | 35447            | 35489            | 35545            | 35577            | 36477            | 38494            | 38550            | 38640            | 38650            | 38690            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                  |                          | PI               | 3.40             | 3.42             | 3.44             | 3.44             | 3.46             | 3.43             | 3.43             | 3.44             | 3.44             | 3.46             | 3.45             | 3.45             | 3.45             | 3.45             | 3.46             | 3.49             | 3.49             | 3.49             | 3.49             | 3.48             | 3.48             |
|                  | 95°F<br>35.0°C           | TC               | 33110            | 33169            | 33881            | 34081            | 35417            | 35228            | 35237            | 35249            | 35250            | 35489            | 36749            | 36753            | 36772            | 36775            | 36791            | 39671            | 39657            | 39661            | 39660            | 39689            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 3.35             | 3.35             | 3.39             | 3.40             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 8: COOLING PERFORMANCE 30K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           |
| 2029             | -13°F<br>-25.0°C         | TC               | 36816            | 36800            | 37325            | 37479            | 38511            | 38413            | 38381            | 38357            | 38353            | 38321            | 39561            | 39511            | 39474            | 39468            | 39431            | 41729            | 41718            | 41632            | 41617            | 41529            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.15             | 3.15             | 3.14             | 3.14             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 39648            | 39630            | 40196            | 40362            | 41473            | 41367            | 41333            | 41307            | 41303            | 41269            | 42604            | 42551            | 42510            | 42504            | 42464            | 44939            | 44927            | 44835            | 44818            | 44723            |                  |
|                  |                          | S/T              | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.26             | 3.26             | 3.26             | 3.25             | 3.24             | 3.24             | 3.24             | 3.25             | 3.25             | 3.25             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 40964            | 40940            | 41700            | 41874            | 43024            | 42721            | 42674            | 42641            | 42636            | 43065            | 43977            | 43914            | 43860            | 43853            | 43832            | 46342            | 46331            | 46327            | 46334            | 46364            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.28             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.33             | 3.33             | 3.33             | 3.33             | 3.33             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 42139            | 42284            | 43250            | 43450            | 44789            | 44115            | 44126            | 44129            | 44174            | 44833            | 45526            | 45537            | 45547            | 45548            | 45609            | 48196            | 48181            | 48207            | 48212            | 48233            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 3.31             | 3.31             | 3.32             | 3.32             | 3.34             | 3.33             | 3.33             | 3.33             | 3.33             | 3.34             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.43             | 3.42             | 3.43             | 3.43             | 3.43             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 42759            | 42738            | 43610            | 43815            | 45173            | 44882            | 44843            | 44812            | 44807            | 45226            | 46420            | 46362            | 46314            | 46307            | 46260            | 49359            | 49344            | 49249            | 49232            | 49127            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.32             | 3.32             | 3.32             | 3.32             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.32             | 3.32             | 3.33             | 3.33             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 42865            | 43005            | 43999            | 44213            | 45649            | 44999            | 45017            | 45025            | 45063            | 45698            | 46534            | 46552            | 46570            | 46572            | 46630            | 49490            | 49477            | 49469            | 49478            | 49520            |                  |
|                  |                          | S/T              | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.30             | 3.30             | 3.30             | 3.30             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 43801            | 43989            | 45127            | 45350            | 46845            | 46019            | 46033            | 46038            | 46098            | 46895            | 47606            | 47623            | 47635            | 47636            | 47713            | 50620            | 50604            | 50640            | 50647            | 50676            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 3.05             | 3.05             | 3.06             | 3.06             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |                  |
|                  | 35°F<br>1.7°C            | TC               | 46099            | 46101            | 46372            | 46501            | 48001            | 48254            | 48252            | 48257            | 48257            | 48385            | 49765            | 49762            | 49764            | 49765            | 49770            | 52567            | 52554            | 52552            | 52550            | 52554            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.42             | 2.42             | 2.44             | 2.45             | 2.55             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             |                  |
|                  | 41°F<br>5.0°C            | TC               | 45868            | 45868            | 46233            | 46555            | 47931            | 48001            | 48000            | 48002            | 48002            | 48171            | 49498            | 49495            | 49498            | 49499            | 49502            | 52276            | 52263            | 52260            | 52257            | 52263            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 2.47             | 2.48             | 2.50             | 2.52             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.65             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |                  |
|                  | 47°F<br>8.3°C            | TC               | 45634            | 45664            | 46277            | 46483            | 47859            | 47750            | 47748            | 47749            | 47749            | 47970            | 49233            | 49228            | 49232            | 49231            | 49231            | 51989            | 51976            | 51972            | 51969            | 51975            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 2.53             | 2.53             | 2.58             | 2.60             | 2.71             | 2.70             | 2.70             | 2.70             | 2.70             | 2.72             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |                  |
|                  | 50°F<br>10.0°C           | TC               | 44076            | 45289            | 46817            | 47089            | 48914            | 46564            | 46589            | 46912            | 47059            | 48961            | 48380            | 48443            | 48469            | 48472            | 48938            | 51715            | 51852            | 51985            | 52001            | 52066            |                  |
|                  |                          | S/T              | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |                  |
|                  |                          | PI               | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             |                  |
|                  | 59°F<br>15.0°C           | TC               | 41860            | 43329            | 44867            | 45140            | 46976            | 44290            | 44350            | 44854            | 45188            | 47023            | 46117            | 46164            | 46180            | 46247            | 47061            | 49521            | 49620            | 49719            | 49730            | 49771            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.21             | 3.22             | 3.23             | 3.23             | 3.24             | 3.22             | 3.22             | 3.23             | 3.23             | 3.24             | 3.23             | 3.23             | 3.23             | 3.23             | 3.24             | 3.26             | 3.25             | 3.25             | 3.25             | 3.25             |                  |
|                  | 68°F<br>20.0°C           | TC               | 39640            | 41332            | 42864            | 43137            | 44967            | 41965            | 42059            | 42911            | 43184            | 45012            | 43779            | 43812            | 43891            | 43929            | 45049            | 47172            | 47259            | 47334            | 47341            | 47366            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |                  |
|                  |                          | PI               | 3.49             | 3.51             | 3.53             | 3.53             | 3.55             | 3.52             | 3.52             | 3.53             | 3.53             | 3.55             | 3.54             | 3.54             | 3.54             | 3.54             | 3.55             | 3.59             | 3.59             | 3.58             | 3.58             | 3.58             |                  |
|                  | 77°F<br>25.0°C           | TC               | 37404            | 39205            | 40740            | 41011            | 42843            | 39653            | 39779            | 40784            | 41056            | 42886            | 41449            | 41496            | 41602            | 41648            | 42922            | 44767            | 44903            | 45006            | 45017            | 45059            |                  |
|                  |                          | S/T              | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |                  |
|                  |                          | PI               | 3.80             | 3.82             | 3.84             | 3.84             | 3.86             | 3.83             | 3.83             | 3.84             | 3.84             | 3.86             | 3.85             | 3.85             | 3.85             | 3.85             | 3.86             | 3.89             | 3.89             | 3.89             | 3.89             | 3.88             |                  |
|                  | 82°F<br>27.8°C           | TC               | 36930            | 38815            | 40381            | 40655            | 42516            | 39134            | 39285            | 40416            | 40700            | 42561            | 40955            | 41006            | 41134            | 41185            | 42598            | 44281            | 44447            | 44563            | 44575            | 44623            |                  |
|                  |                          | S/T              | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |                  |
|                  |                          | PI               | 3.92             | 3.95             | 3.96             | 3.97             | 3.98             | 3.95             | 3.95             | 3.96             | 3.97             | 3.98             | 3.97             | 3.97             | 3.97             | 3.97             | 3.98             | 4.02             | 4.01             | 4.01             | 4.01             | 4.01             |                  |
|                  | 86°F<br>30.0°C           | TC               | 37639            | 39518            | 41134            | 41421            | 43350            | 39693            | 39876            | 41180            | 41468            | 43395            | 41574            | 41622            | 41775            | 41835            | 43432            | 45009            | 45183            | 45290            | 45301            | 45343            |                  |
|                  |                          | S/T              | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |                  |
|                  |                          | PI               | 3.96             | 3.99             | 4.00             | 4.01             | 4.03             | 3.99             | 3.99             | 4.01             | 4.01             | 4.03             | 4.01             | 4.01             | 4.01             | 4.01             | 4.03             | 4.07             | 4.06             | 4.06             | 4.06             | 4.05             |                  |
|                  | 95°F<br>35.0°C           | TC               | 38958            | 39168            | 40434            | 40674            | 42281            | 41404            | 41428            | 41441            | 41490            | 42334            | 43181            | 43190            | 43216            | 43220            | 43292            | 46529            | 46512            | 46521            | 46534            | 46597            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

## COOLING PERFORMANCE 36K

Table 9: COOLING PERFORMANCE36K - NON-DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882              | -13°F<br>-25.0°C         | TC               | 22536            | 22532            | 22529            | 22529            | 22525            | 23585            | 23578            | 23575            | 23574            | 23569            | 24328            | 24322            | 24316            | 24315            | 24310            | 25723            | 25717            | 25711            | 25709            | 25701            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 24269            | 24266            | 24262            | 24262            | 24258            | 25399            | 25392            | 25388            | 25387            | 25382            | 26200            | 26193            | 26187            | 26186            | 26180            | 27702            | 27695            | 27688            | 27687            | 27678            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 25059            | 25054            | 25050            | 25049            | 25042            | 26214            | 26208            | 26203            | 26202            | 26195            | 27032            | 27024            | 27018            | 27017            | 27009            | 28557            | 28549            | 28544            | 28543            | 28532            |                  |
|                  |                          | S/T              | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 25845            | 25845            | 25845            | 25845            | 26231            | 27135            | 27131            | 27130            | 27130            | 27132            | 28063            | 28061            | 28057            | 28057            | 28059            | 29842            | 29834            | 29827            | 29826            | 29826            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 26187            | 26184            | 26181            | 26180            | 26308            | 27562            | 27555            | 27551            | 27550            | 27545            | 28544            | 28538            | 28530            | 28530            | 28523            | 30410            | 30401            | 30394            | 30392            | 30383            |                  |
|                  |                          | S/T              | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 26321            | 26316            | 26312            | 26311            | 26691            | 27702            | 27695            | 27690            | 27689            | 27689            | 28693            | 28692            | 28688            | 28687            | 28692            | 30631            | 30622            | 30615            | 30613            | 30615            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 26864            | 26865            | 26865            | 26862            | 27373            | 28310            | 28304            | 28304            | 28305            | 28308            | 29350            | 29348            | 29344            | 29343            | 29346            | 31351            | 31342            | 31334            | 31333            | 31333            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |                  |
|                  | 35°F<br>1.7°C            | TC               | 28172            | 28170            | 28168            | 28167            | 28206            | 29631            | 29628            | 29625            | 29624            | 29622            | 30663            | 30657            | 30655            | 30654            | 30650            | 32594            | 32586            | 32580            | 32579            | 32578            |                  |
|                  |                          | S/T              | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |                  |
|                  |                          | PI               | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             |                  |
|                  | 41°F<br>5.0°C            | TC               | 28040            | 28037            | 28036            | 28035            | 28101            | 29481            | 29478            | 29474            | 29474            | 29472            | 30500            | 30494            | 30491            | 30491            | 30486            | 32408            | 32401            | 32394            | 32393            | 32391            |                  |
|                  |                          | S/T              | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |                  |
|                  | 47°F<br>8.3°C            | TC               | 27904            | 27900            | 27899            | 27898            | 27995            | 29328            | 29325            | 29321            | 29320            | 29318            | 30336            | 30329            | 30327            | 30326            | 30322            | 32220            | 32213            | 32206            | 32206            | 32202            |                  |
|                  |                          | S/T              | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |                  |
|                  | 50°F<br>10.0°C           | TC               | 27021            | 27025            | 27274            | 27496            | 28516            | 28656            | 28662            | 28670            | 28671            | 28777            | 29841            | 29844            | 29857            | 29860            | 29872            | 32140            | 32128            | 32132            | 32130            | 32158            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             |                  |
|                  | 59°F<br>15.0°C           | TC               | 25621            | 25660            | 26165            | 26318            | 27347            | 27250            | 27256            | 27261            | 27262            | 27429            | 28443            | 28436            | 28447            | 28449            | 28457            | 30729            | 30717            | 30719            | 30718            | 30741            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 2.09             | 2.09             | 2.09             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |                  |
|                  | 68°F<br>20.0°C           | TC               | 24248            | 24327            | 25014            | 25167            | 26196            | 25858            | 25862            | 25866            | 25866            | 26177            | 27032            | 27027            | 27037            | 27038            | 27044            | 29293            | 29280            | 29281            | 29280            | 29303            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 2.27             | 2.27             | 2.28             | 2.28             | 2.30             | 2.29             | 2.29             | 2.29             | 2.29             | 2.30             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |                  |
|                  | 77°F<br>25.0°C           | TC               | 22848            | 22961            | 23749            | 23904            | 24933            | 24446            | 24455            | 24460            | 24484            | 24969            | 25615            | 25613            | 25627            | 25629            | 25660            | 27865            | 27852            | 27855            | 27856            | 27888            |                  |
|                  |                          | S/T              | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 2.47             | 2.48             | 2.49             | 2.49             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.54             | 2.54             | 2.54             | 2.54             | 2.53             |                  |
|                  | 82°F<br>27.8°C           | TC               | 22523            | 22668            | 23538            | 23694            | 24740            | 24140            | 24151            | 24172            | 24193            | 24776            | 25323            | 25325            | 25339            | 25341            | 25384            | 27602            | 27588            | 27593            | 27596            | 27633            |                  |
|                  |                          | S/T              | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 2.56             | 2.56             | 2.57             | 2.57             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |                  |
|                  | 86°F<br>30.0°C           | TC               | 22830            | 23029            | 23989            | 24151            | 25237            | 24499            | 24510            | 24543            | 24567            | 25273            | 25717            | 25720            | 25734            | 25735            | 25794            | 28065            | 28051            | 28056            | 28062            | 28097            |                  |
|                  |                          | S/T              | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 2.58             | 2.58             | 2.60             | 2.60             | 2.61             | 2.60             | 2.60             | 2.60             | 2.60             | 2.61             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             |                  |
|                  | 95°F<br>35.0°C           | TC               | 23878            | 23877            | 23879            | 23906            | 24518            | 25477            | 25471            | 25469            | 25469            | 25474            | 26630            | 26627            | 26622            | 26622            | 26622            | 28858            | 28848            | 28840            | 28839            | 28839            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI</             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 9: COOLING PERFORMANCE36K - NON-DUCTED (Continued)

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |        |
|-----------------------|--------------------------|------------------|------------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|
|                       |                          |                  | ID DB<br>°F (°C) | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F       | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|                       |                          |                  |                  | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C       | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 1147                  | -13°F<br>-25.0°C         | TC               | 26555            | 26549  | 26543  | 26543  | 27088  | 27750          | 27742  | 27735  | 27733  | 27724  | 28597        | 28588  | 28578  | 28576  | 28563  | 30187          | 30179  | 30167  | 30166  | 30147  |        |
|                       |                          | S/T              | 0.75             | 0.84   | 0.92   | 0.93   | 1.00   | 0.61           | 0.70   | 0.78   | 0.79   | 0.88   | 0.52         | 0.61   | 0.69   | 0.70   | 0.79   | 0.38           | 0.46   | 0.53   | 0.54   | 0.62   |        |
|                       |                          | PI               | 2.36             | 2.36   | 2.36   | 2.36   | 2.35   | 2.34           | 2.34   | 2.34   | 2.34   | 2.34   | 2.33         | 2.33   | 2.33   | 2.33   | 2.33   | 2.33           | 2.33   | 2.33   | 2.33   | 2.33   |        |
|                       | -4°F<br>-20.0°C          | TC               | 28597            | 28591  | 28585  | 28585  | 29171  | 29885          | 29876  | 29868  | 29867  | 29857  | 30797        | 30787  | 30777  | 30774  | 30761  | 32509          | 32501  | 32488  | 32487  | 32466  |        |
|                       |                          | S/T              | 0.75             | 0.84   | 0.92   | 0.94   | 1.00   | 0.61           | 0.71   | 0.78   | 0.79   | 0.88   | 0.53         | 0.61   | 0.69   | 0.70   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                          | PI               | 2.44             | 2.45   | 2.45   | 2.45   | 2.43   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   | 2.41         | 2.41   | 2.42   | 2.42   | 2.42   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   |        |
|                       | 0°F<br>-17.8°C           | TC               | 29532            | 29524  | 29518  | 29516  | 30252  | 30849          | 30838  | 30826  | 30824  | 30811  | 31780        | 31767  | 31754  | 31751  | 31731  | 33510          | 33503  | 33500  | 33498  | 33502  |        |
|                       |                          | S/T              | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI               | 2.46             | 2.47   | 2.47   | 2.47   | 2.46   | 2.45           | 2.45   | 2.45   | 2.45   | 2.45   | 2.45         | 2.45   | 2.45   | 2.45   | 2.45   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 5°F<br>-15.0°C           | TC               | 30430            | 30433  | 30528  | 30571  | 31465  | 31912          | 31911  | 31915  | 31916  | 31954  | 32974        | 32973  | 32975  | 32976  | 32982  | 35001          | 34991  | 34992  | 34990  | 34993  |        |
|                       |                          | S/T              | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                          | PI               | 2.49             | 2.49   | 2.49   | 2.49   | 2.49   | 2.49           | 2.49   | 2.49   | 2.49   | 2.49   | 2.50         | 2.50   | 2.50   | 2.50   | 2.50   | 2.54           | 2.54   | 2.54   | 2.54   | 2.54   |        |
|                       | 14°F<br>-10.0°C          | TC               | 30851            | 30844  | 30838  | 30837  | 31713  | 32427          | 32417  | 32408  | 32406  | 32396  | 33554        | 33543  | 33531  | 33528  | 33513  | 35695          | 35685  | 35671  | 35669  | 35646  |        |
|                       |                          | S/T              | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.89   | 0.53         | 0.62   | 0.69   | 0.71   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                          | PI               | 2.49             | 2.49   | 2.49   | 2.49   | 2.48   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   | 2.47         | 2.47   | 2.47   | 2.47   | 2.47   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 17°F<br>-8.3°C           | TC               | 30988            | 30978  | 31059  | 31102  | 32035  | 32570          | 32559  | 32567  | 32568  | 32602  | 33711        | 33711  | 33716  | 33718  | 33729  | 35923          | 35912  | 35916  | 35914  | 35922  |        |
|                       |                          | S/T              | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI               | 2.46             | 2.46   | 2.46   | 2.46   | 2.46   | 2.46           | 2.46   | 2.46   | 2.46   | 2.46   | 2.46         | 2.46   | 2.46   | 2.46   | 2.46   | 2.47           | 2.47   | 2.47   | 2.47   | 2.47   |        |
|                       | 23°F<br>-5.0°C           | TC               | 31632            | 31635  | 31764  | 31820  | 32865  | 33292          | 33291  | 33297  | 33298  | 33351  | 34484        | 34483  | 34487  | 34488  | 34496  | 36769          | 36758  | 36760  | 36758  | 36763  |        |
|                       |                          | S/T              | 0.77             | 0.87   | 0.95   | 0.97   | 1.00   | 0.62           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.63   | 0.71   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                          | PI               | 2.28             | 2.28   | 2.28   | 2.28   | 2.29   | 2.29           | 2.29   | 2.29   | 2.29   | 2.29   | 2.30         | 2.30   | 2.30   | 2.30   | 2.30   | 2.34           | 2.34   | 2.34   | 2.34   | 2.34   |        |
|                       | 35°F<br>1.7°C            | TC               | 33226            | 33223  | 33224  | 33224  | 33651  | 34878          | 34871  | 34868  | 34868  | 34870  | 36037        | 36034  | 36028  | 36028  | 36026  | 38203          | 38194  | 38187  | 38185  | 38184  |        |
|                       |                          | S/T              | 0.73             | 0.81   | 0.89   | 0.90   | 1.00   | 0.60           | 0.68   | 0.76   | 0.77   | 0.85   | 0.52         | 0.60   | 0.67   | 0.68   | 0.76   | 0.39           | 0.47   | 0.52   | 0.53   | 0.60   |        |
|                       |                          | PI               | 1.81             | 1.81   | 1.81   | 1.81   | 1.84   | 1.92           | 1.92   | 1.92   | 1.92   | 1.92   | 2.00         | 2.00   | 2.00   | 2.00   | 2.00   | 2.17           | 2.17   | 2.17   | 2.17   | 2.17   |        |
|                       | 41°F<br>5.0°C            | TC               | 32983            | 33062  | 33062  | 33072  | 33617  | 34697          | 34691  | 34687  | 34688  | 34689  | 35844        | 35841  | 35835  | 35835  | 35834  | 37985          | 37977  | 37969  | 37967  | 37964  |        |
|                       |                          | S/T              | 0.74             | 0.82   | 0.90   | 0.91   | 1.00   | 0.60           | 0.69   | 0.76   | 0.78   | 0.86   | 0.52         | 0.60   | 0.67   | 0.69   | 0.77   | 0.39           | 0.45   | 0.52   | 0.53   | 0.61   |        |
|                       |                          | PI               | 1.84             | 1.85   | 1.85   | 1.85   | 1.88   | 1.96           | 1.96   | 1.96   | 1.96   | 1.96   | 2.05         | 2.05   | 2.05   | 2.05   | 2.05   | 2.24           | 2.24   | 2.23   | 2.23   | 2.23   |        |
|                       | 47°F<br>8.3°C            | TC               | 32900            | 32898  | 32898  | 32930  | 33579  | 34514          | 34508  | 34506  | 34506  | 34506  | 35652        | 35648  | 35643  | 35642  | 35641  | 37770          | 37761  | 37754  | 37752  | 37749  |        |
|                       |                          | S/T              | 0.74             | 0.83   | 0.91   | 0.92   | 1.00   | 0.61           | 0.70   | 0.77   | 0.78   | 0.87   | 0.52         | 0.61   | 0.68   | 0.69   | 0.78   | 0.39           | 0.45   | 0.52   | 0.53   | 0.62   |        |
|                       |                          | PI               | 1.89             | 1.89   | 1.89   | 1.89   | 1.94   | 2.02           | 2.02   | 2.02   | 2.02   | 2.02   | 2.11         | 2.10   | 2.10   | 2.10   | 2.10   | 2.30           | 2.30   | 2.30   | 2.30   | 2.30   |        |
|                       | 50°F<br>10.0°C           | TC               | 31795            | 31930  | 32832  | 33018  | 34266  | 33683          | 33703  | 33712  | 33747  | 34309  | 35050        | 35070  | 35090  | 35093  | 35144  | 37660          | 37646  | 37690  | 37700  | 37751  |        |
|                       |                          | S/T              | 0.83             | 0.95   | 1.00   | 1.00   | 1.00   | 0.66           | 0.78   | 0.87   | 0.88   | 1.00   | 0.55         | 0.66   | 0.76   | 0.77   | 0.88   | 0.39           | 0.48   | 0.56   | 0.58   | 0.68   |        |
|                       |                          | PI               | 2.18             | 2.18   | 2.18   | 2.18   | 2.18   | 2.18           | 2.18   | 2.18   | 2.18   | 2.18   | 2.18         | 2.18   | 2.18   | 2.18   | 2.18   | 2.18           | 2.18   | 2.18   | 2.18   | 2.18   |        |
|                       | 59°F<br>15.0°C           | TC               | 30150            | 30365  | 31438  | 31626  | 32883  | 32036          | 32051  | 32100  | 32129  | 32925  | 33400        | 33417  | 33433  | 33435  | 33517  | 36022          | 36007  | 36042  | 36050  | 36088  |        |
|                       |                          | S/T              | 0.85             | 0.97   | 1.00   | 1.00   | 1.00   | 0.67           | 0.79   | 0.89   | 0.91   | 1.00   | 0.56         | 0.68   | 0.77   | 0.79   | 0.90   | 0.39           | 0.48   | 0.57   | 0.59   | 0.69   |        |
|                       |                          | PI               | 2.39             | 2.39   | 2.40   | 2.40   | 2.41   | 2.40           | 2.40   | 2.40   | 2.40   | 2.41   | 2.41         | 2.41   | 2.41   | 2.41   | 2.41   | 2.42           | 2.42   | 2.42   | 2.42   | 2.42   |        |
|                       | 68°F<br>20.0°C           | TC               | 28534            | 29013  | 30067  | 30255  | 31511  | 30401          | 30413  | 30497  | 30534  | 31551  | 31749        | 31766  | 31776  | 31777  | 31901  | 34346          | 34331  | 34364  | 34371  | 34399  |        |
|                       |                          | S/T              | 0.87             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.81   | 0.91   | 0.93   | 1.00   | 0.57         | 0.69   | 0.79   | 0.81   | 0.93   | 0.39           | 0.49   | 0.58   | 0.60   | 0.71   |        |
|                       |                          | PI               | 2.60             | 2.60   | 2.62   | 2.62   | 2.63   | 2.62           | 2.62   | 2.62   | 2.62   | 2.63   | 2.64         | 2.64   | 2.64   | 2.64   | 2.64   | 2.67           | 2.67   | 2.67   | 2.67   | 2.67   |        |
|                       | 77°F<br>25.0°C           | TC               | 26885            | 27512  | 28566  | 28754  | 30011  | 28744          | 28758  | 28868  | 28915  | 30050  | 30078        | 30104  | 30119  | 30120  | 30276  | 32658          | 32643  | 32694  | 32703  | 32740  |        |
|                       |                          | S/T              | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.82   | 0.93   | 0.95   | 1.00   | 0.57         | 0.70   | 0.80   | 0.82   | 0.94   | 0.39           | 0.49   | 0.59   | 0.60   | 0.72   |        |
|                       |                          | PI               | 2.83             | 2.83   | 2.85   | 2.85   | 2.86   | 2.85           | 2.85   | 2.85   | 2.85   | 2.86   | 2.87         | 2.87   | 2.87   | 2.87   | 2.87   | 2.90           | 2.90   | 2.90   | 2.90   | 2.89   |        |
|                       | 82°F<br>27.8°C           | TC               | 26524            | 27245  | 28317  | 28508  | 29786  | 28383          | 28399  | 28536  | 28592  | 29826  | 29732        | 29765  | 29780  | 29782  | 29970  | 32344          | 32350  | 32390  | 32400  | 32441  |        |
|                       |                          | S/T              | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.70           | 0.83   | 0.94   | 0.96   | 1.00   | 0.58         | 0.70   | 0.81   | 0.83   | 0.96   | 0.39           | 0.49   | 0.59   | 0.61   | 0.72   |        |
|                       |                          | PI               | 2.92             | 2.93   | 2.94   | 2.94   | 2.96   | 2.94           | 2.94   | 2.94   | 2.95   | 2.96   | 2.96         | 2.96   | 2.96   | 2.96   | 2.96   | 2.99           | 2.99   | 2.99   | 2.99   | 2.99   |        |
|                       | 86°F<br>30.0°C           | TC               | 26904            | 27753  | 28866  | 29062  | 30388  | 28808          | 28822  | 28994  | 29071  | 30428  | 30198        | 30230  | 30244  | 30246  | 30480  | 32889          | 32891  | 32940  | 32948  | 32987  |        |
|                       |                          | S/T              | 0.90             | 1.00   | 1.00   | 1.00   | 1.00   | 0.71           | 0.84   | 0.96   | 0.98   | 1.00   | 0.58         | 0.71   | 0.82   | 0.84   | 0.97   | 0.39           | 0.50   | 0.60   | 0.61   | 0.73   |        |
|                       |                          | PI               | 2.95             | 2.96   | 2.97   | 2.98   | 2.99   | 2.97           | 2.97   | 2.97   | 2.98   | 2.99   | 2.99         | 2.99   | 2.99   | 2.99   | 2.99   | 3.03           | 3.03   | 3.02   | 3.02   | 3.02   |        |
|                       | 95°F<br>35.0°C           | TC               | 28128            | 28134  | 28289  | 28361  | 29530  | 29967          | 29963  | 29971  | 29973  | 30026  | 31290        | 31289  | 31288  | 31289  | 31303  | 33840          | 33828  | 33818  | 33833  | 33824  |        |
|                       |                          | S/T              | 0.77             | 0.87   | 0.96   | 0.98   | 1.00   | 0.63           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI               | 2.91             | 2.91   | 2.91   | 2.92   | 2.97   | 3.00           | 3.00   | 3.00   | 3.00   | 3.00   | 3.06         | 3.06   | 3.06   | 3.06   | 3.06   |                |        |        |        |        |        |

Table 9: COOLING PERFORMANCE 36K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C         | TC               | 31275            | 31264            | 31256            | 31437            | 32363            | 32652            | 32634            | 32620            | 32617            | 32595            | 33627            | 33609            | 33587            | 33583            | 33560            | 35472            | 35463            | 35437            | 35428            | 35375            |                  |
|                  |                          | S/T              | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.71             | 2.71             | 2.71             | 2.71             | 2.70             | 2.69             | 2.69             | 2.69             | 2.70             | 2.70             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 33681            | 33669            | 33660            | 33855            | 34852            | 35164            | 35145            | 35129            | 35126            | 35102            | 36214            | 36195            | 36171            | 36167            | 36142            | 38201            | 38191            | 38162            | 38153            | 38096            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.81             | 2.81             | 2.81             | 2.81             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.78             | 2.78             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 34793            | 34778            | 34912            | 35178            | 36152            | 36310            | 36282            | 36261            | 36258            | 36252            | 37375            | 37353            | 37319            | 37314            | 37281            | 39389            | 39377            | 39379            | 39383            | 39413            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.82             | 2.82             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 35816            | 35848            | 36332            | 36498            | 37614            | 37519            | 37527            | 37531            | 37532            | 37717            | 38747            | 38744            | 38754            | 38755            | 38760            | 41062            | 41050            | 41051            | 41054            | 41076            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 36316            | 36302            | 36453            | 36771            | 37913            | 38139            | 38117            | 38098            | 38095            | 38075            | 39457            | 39438            | 39408            | 39402            | 39369            | 41938            | 41925            | 41894            | 41885            | 41821            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.86             | 2.86             | 2.86             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.84             | 2.84             | 2.84             | 2.84             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 36527            | 36536            | 36984            | 37197            | 38395            | 38361            | 38365            | 38373            | 38374            | 38555            | 39584            | 39600            | 39625            | 39627            | 39637            | 42217            | 42204            | 42209            | 42217            | 42256            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.84             | 2.84             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             | 2.85             | 2.85             | 2.85             | 2.85             | 2.85             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 37229            | 37281            | 37887            | 38073            | 39318            | 39140            | 39150            | 39155            | 39156            | 39387            | 40520            | 40518            | 40531            | 40533            | 40539            | 43132            | 43119            | 43121            | 43126            | 43156            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 2.62             | 2.62             | 2.63             | 2.63             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.66             | 2.66             | 2.66             | 2.66             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |                  |
|                  | 35°F<br>1.7°C            | TC               | 39153            | 39154            | 39230            | 39274            | 40283            | 41031            | 41026            | 41027            | 41029            | 41029            | 42350            | 42347            | 42343            | 42343            | 42348            | 44803            | 44792            | 44783            | 44789            | 44781            |                  |
|                  |                          | S/T              | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI               | 2.08             | 2.08             | 2.09             | 2.09             | 2.16             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |                  |
|                  | 41°F<br>5.0°C            | TC               | 38958            | 38959            | 39067            | 39120            | 40230            | 40818            | 40813            | 40815            | 40815            | 40851            | 42124            | 42120            | 42116            | 42117            | 42121            | 44549            | 44539            | 44530            | 44534            | 44528            |                  |
|                  |                          | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 2.13             | 2.13             | 2.14             | 2.15             | 2.22             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.37             | 2.36             | 2.36             | 2.36             | 2.37             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |                  |
|                  | 47°F<br>8.3°C            | TC               | 38760            | 38760            | 38909            | 38977            | 40176            | 40604            | 40599            | 40600            | 40600            | 40661            | 41898            | 41893            | 41890            | 41890            | 41893            | 44302            | 44291            | 44287            | 44286            | 44280            |                  |
|                  |                          | S/T              | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 2.18             | 2.18             | 2.19             | 2.19             | 2.28             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             |                  |
|                  | 50°F<br>10.0°C           | TC               | 37406            | 38017            | 39287            | 39512            | 41026            | 39604            | 39628            | 39756            | 39807            | 41074            | 41164            | 41217            | 41241            | 41243            | 41429            | 44129            | 44151            | 44258            | 44270            | 44329            |                  |
|                  |                          | S/T              | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                  |                          | PI               | 2.52             | 2.52             | 2.52             | 2.52             | 2.51             | 2.52             | 2.52             | 2.52             | 2.52             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             |                  |
|                  | 59°F<br>15.0°C           | TC               | 35504            | 36359            | 37638            | 37865            | 39389            | 37671            | 37687            | 37874            | 37947            | 39434            | 39235            | 39277            | 39293            | 39295            | 39554            | 42231            | 42242            | 42325            | 42335            | 42376            |                  |
|                  |                          | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                  |                          | PI               | 2.76             | 2.76             | 2.77             | 2.77             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.80             | 2.80             | 2.79             | 2.79             | 2.79             |                  |
|                  | 68°F<br>20.0°C           | TC               | 33645            | 34731            | 36009            | 36236            | 37759            | 35748            | 35759            | 36039            | 36274            | 37801            | 37304            | 37335            | 37345            | 37346            | 37771            | 40280            | 40294            | 40358            | 40366            | 40394            |                  |
|                  |                          | S/T              | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                  |                          | PI               | 2.99             | 3.01             | 3.02             | 3.03             | 3.04             | 3.02             | 3.02             | 3.02             | 3.03             | 3.05             | 3.04             | 3.04             | 3.04             | 3.04             | 3.05             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |                  |
|                  | 77°F<br>25.0°C           | TC               | 31734            | 32950            | 34228            | 34455            | 35978            | 33798            | 33813            | 34202            | 34496            | 36020            | 35340            | 35381            | 35397            | 35438            | 36052            | 38276            | 38310            | 38396            | 38405            | 38447            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.26             | 3.28             | 3.29             | 3.29             | 3.31             | 3.29             | 3.29             | 3.29             | 3.29             | 3.31             | 3.31             | 3.30             | 3.30             | 3.30             | 3.31             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             |                  |
|                  | 82°F<br>27.8°C           | TC               | 31308            | 32635            | 33936            | 34167            | 35721            | 33374            | 33428            | 33977            | 34208            | 35761            | 34936            | 34982            | 35000            | 35055            | 35794            | 37894            | 37942            | 38037            | 38048            | 38093            |                  |
|                  |                          | S/T              | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.37             | 3.39             | 3.40             | 3.40             | 3.42             | 3.39             | 3.39             | 3.40             | 3.40             | 3.42             | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.45             | 3.45             | 3.44             | 3.44             | 3.44             |                  |
|                  | 86°F<br>30.0°C           | TC               | 31737            | 33207            | 34555            | 34793            | 36414            | 33833            | 33904            | 34596            | 34835            | 36443            | 35447            | 35489            | 35545            | 35577            | 36477            | 38494            | 38550            | 38640            | 38650            | 38690            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                  |                          | PI               | 3.40             | 3.42             | 3.44             | 3.44             | 3.46             | 3.43             | 3.43             | 3.44             | 3.44             | 3.46             | 3.45             | 3.45             | 3.45             | 3.45             | 3.46             | 3.49             | 3.49             | 3.49             | 3.49             | 3.48             |                  |
|                  | 95°F<br>35.0°C           | TC               | 33110            | 33169            | 33881            | 34081            | 35417            | 35228            | 35237            | 35249            | 35250            | 35489            | 36749            | 36753            | 36772            | 36775            | 36791            | 39671            | 39657            | 39661            | 39660            | 39689            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 3.35             | 3.35             | 3.39             | 3.40             | 3.46             | 3.45             | 3.45             | 3.45             | 3.45             | 3.47             | 3.53             | 3.53             | 3.53             | 3.53             | 3.53             | 3.68             | 3.68             | 3.68             | 3.68             |                  |                  |

Table 9: COOLING PERFORMANCE36K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2029             | -13°F<br>-25.0°C         | TC               | 36816            | 36800            | 37325            | 37479            | 38511            | 38413            | 38381            | 38357            | 38353            | 38321            | 39561            | 39511            | 39474            | 39468            | 39431            | 41729            | 41718            | 41632            | 41617            | 41529            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.15             | 3.15             | 3.14             | 3.14             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 39648            | 39630            | 40196            | 40362            | 41473            | 41367            | 41333            | 41307            | 41303            | 41269            | 42604            | 42551            | 42510            | 42504            | 42464            | 44939            | 44927            | 44835            | 44818            | 44723            |                  |
|                  |                          | S/T              | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.26             | 3.26             | 3.26             | 3.25             | 3.24             | 3.24             | 3.24             | 3.25             | 3.25             | 3.25             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 40964            | 40940            | 41700            | 41874            | 43024            | 42721            | 42674            | 42641            | 42636            | 43065            | 43977            | 43914            | 43860            | 43853            | 43832            | 46342            | 46331            | 46327            | 46334            | 46364            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.28             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.33             | 3.33             | 3.33             | 3.33             | 3.33             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 42139            | 42284            | 43250            | 43450            | 44789            | 44115            | 44126            | 44129            | 44174            | 44833            | 45526            | 45537            | 45547            | 45548            | 45609            | 48196            | 48181            | 48207            | 48212            | 48233            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 3.31             | 3.31             | 3.32             | 3.32             | 3.34             | 3.33             | 3.33             | 3.33             | 3.33             | 3.34             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.43             | 3.42             | 3.43             | 3.43             | 3.43             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 42759            | 42738            | 43610            | 43815            | 45173            | 44882            | 44843            | 44812            | 44807            | 45226            | 46420            | 46362            | 46314            | 46307            | 46260            | 49359            | 49344            | 49249            | 49232            | 49127            |                  |
|                  |                          | S/T              | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 3.32             | 3.32             | 3.32             | 3.32             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.32             | 3.32             | 3.33             | 3.33             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 42865            | 43005            | 43999            | 44213            | 45649            | 44999            | 45017            | 45025            | 45063            | 45698            | 46534            | 46552            | 46570            | 46572            | 46630            | 49490            | 49477            | 49469            | 49478            | 49520            |                  |
|                  |                          | S/T              | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.30             | 3.30             | 3.30             | 3.30             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 43801            | 43989            | 45127            | 45350            | 46845            | 46019            | 46033            | 46038            | 46098            | 46895            | 47606            | 47623            | 47635            | 47636            | 47713            | 50620            | 50604            | 50640            | 50647            | 50676            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 3.05             | 3.05             | 3.06             | 3.06             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |                  |
|                  | 35°F<br>1.7°C            | TC               | 46099            | 46101            | 46372            | 46501            | 48001            | 48254            | 48252            | 48257            | 48257            | 48385            | 49765            | 49762            | 49764            | 49765            | 49770            | 52567            | 52554            | 52552            | 52550            | 52554            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.42             | 2.42             | 2.44             | 2.45             | 2.55             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             |                  |
|                  | 41°F<br>5.0°C            | TC               | 45868            | 45868            | 46233            | 46555            | 47931            | 48001            | 48000            | 48002            | 48002            | 48171            | 49498            | 49495            | 49498            | 49499            | 49502            | 52276            | 52263            | 52260            | 52257            | 52263            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 2.47             | 2.48             | 2.50             | 2.52             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.65             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |                  |
|                  | 47°F<br>8.3°C            | TC               | 45634            | 45664            | 46277            | 46483            | 47859            | 47750            | 47748            | 47749            | 47749            | 47970            | 49233            | 49228            | 49232            | 49231            | 49231            | 51989            | 51976            | 51972            | 51969            | 51975            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 2.53             | 2.53             | 2.58             | 2.60             | 2.71             | 2.70             | 2.70             | 2.70             | 2.70             | 2.72             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |                  |
|                  | 50°F<br>10.0°C           | TC               | 44076            | 45289            | 46817            | 47089            | 48914            | 46564            | 46589            | 46912            | 47059            | 48961            | 48380            | 48443            | 48469            | 48472            | 48938            | 51715            | 51852            | 51985            | 52001            | 52066            |                  |
|                  |                          | S/T              | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |                  |
|                  |                          | PI               | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             |                  |
|                  | 59°F<br>15.0°C           | TC               | 41860            | 43329            | 44867            | 45140            | 46976            | 44290            | 44350            | 44854            | 45188            | 47023            | 46117            | 46164            | 46180            | 46247            | 47061            | 49521            | 49620            | 49719            | 49730            | 49771            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 3.21             | 3.22             | 3.23             | 3.23             | 3.24             | 3.22             | 3.22             | 3.23             | 3.23             | 3.24             | 3.23             | 3.23             | 3.23             | 3.23             | 3.24             | 3.26             | 3.25             | 3.25             | 3.25             | 3.25             |                  |
|                  | 68°F<br>20.0°C           | TC               | 39640            | 41332            | 42864            | 43137            | 44967            | 41965            | 42059            | 42911            | 43184            | 45012            | 43779            | 43812            | 43891            | 43929            | 45049            | 47172            | 47259            | 47334            | 47341            | 47366            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |                  |
|                  |                          | PI               | 3.49             | 3.51             | 3.53             | 3.53             | 3.55             | 3.52             | 3.52             | 3.53             | 3.53             | 3.55             | 3.54             | 3.54             | 3.54             | 3.54             | 3.55             | 3.59             | 3.59             | 3.58             | 3.58             | 3.58             |                  |
|                  | 77°F<br>25.0°C           | TC               | 37404            | 39205            | 40740            | 41011            | 42843            | 39653            | 39779            | 40784            | 41056            | 42886            | 41449            | 41496            | 41602            | 41648            | 42922            | 44767            | 44903            | 45006            | 45017            | 45059            |                  |
|                  |                          | S/T              | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |                  |
|                  |                          | PI               | 3.80             | 3.82             | 3.84             | 3.84             | 3.86             | 3.83             | 3.83             | 3.84             | 3.84             | 3.86             | 3.85             | 3.85             | 3.85             | 3.85             | 3.86             | 3.89             | 3.89             | 3.89             | 3.89             | 3.88             |                  |
|                  | 82°F<br>27.8°C           | TC               | 36930            | 38815            | 40381            | 40655            | 42516            | 39134            | 39285            | 40416            | 40700            | 42561            | 40955            | 41006            | 41134            | 41185            | 42598            | 44281            | 44447            | 44563            | 44575            | 44623            |                  |
|                  |                          | S/T              | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |                  |
|                  |                          | PI               | 3.92             | 3.95             | 3.96             | 3.97             | 3.98             | 3.95             | 3.95             | 3.96             | 3.97             | 3.98             | 3.97             | 3.97             | 3.97             | 3.97             | 3.98             | 4.02             | 4.01             | 4.01             | 4.01             | 4.01             |                  |
|                  | 86°F<br>30.0°C           | TC               | 37639            | 39518            | 41134            | 41421            | 43350            | 39693            | 39876            | 41180            | 41468            | 43395            | 41574            | 41622            | 41775            | 41835            | 43432            | 45009            | 45183            | 45290            | 45301            | 45343            |                  |
|                  |                          | S/T              | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |                  |
|                  |                          | PI               | 3.96             | 3.99             | 4.00             | 4.01             | 4.03             | 3.99             | 3.99             | 4.01             | 4.01             | 4.03             | 4.01             | 4.01             | 4.01             | 4.01             | 4.03             | 4.07             | 4.06             | 4.06             | 4.06             | 4.05             |                  |
|                  | 95°F<br>35.0°C           | TC               | 38958            | 39168            | 40434            | 40674            | 42281            | 41404            | 41428            | 41441            | 41490            | 42334            | 43181            | 43190            | 43216            | 43220            | 43292            | 46529            | 46512            | 46521            | 46534            | 46597            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.               |                  |                  |                  |                  |

Table 10: COOLING PERFORMANCE 48K - NON-DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882              | -13°F<br>-25.0°C         | TC               | 18108            | 18105            | 18103            | 18103            | 18099            | 18951            | 18946            | 18943            | 18942            | 18939            | 19548            | 19543            | 19539            | 19538            | 19534            | 20669            | 20664            | 20659            | 20658            | 20652            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.43             | 2.43             | 2.44             | 2.44             | 2.44             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 19501            | 19498            | 19496            | 19495            | 19492            | 20409            | 20403            | 20400            | 20400            | 20396            | 21052            | 21047            | 21042            | 21041            | 21036            | 22259            | 22254            | 22248            | 22248            | 22240            |                  |
|                  |                          | S/T              | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |                  |
|                  |                          | PI               | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 20136            | 20132            | 20128            | 20128            | 20122            | 21064            | 21059            | 21055            | 21054            | 21048            | 21721            | 21715            | 21710            | 21709            | 21702            | 22946            | 22940            | 22936            | 22935            | 22926            |                  |
|                  |                          | S/T              | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 20767            | 20767            | 20767            | 20767            | 21078            | 21804            | 21800            | 21800            | 21800            | 21802            | 22550            | 22548            | 22545            | 22545            | 22546            | 23979            | 23973            | 23967            | 23966            | 23966            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 23272            | 23269            | 23266            | 23266            | 23379            | 24494            | 24488            | 24484            | 24483            | 24479            | 25367            | 25361            | 25354            | 25354            | 25348            | 27025            | 27017            | 27010            | 27009            | 27001            |                  |
|                  |                          | S/T              | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 24122            | 24117            | 24113            | 24113            | 24460            | 25387            | 25381            | 25376            | 25375            | 25375            | 26296            | 26295            | 26291            | 26290            | 26294            | 28071            | 28063            | 28057            | 28055            | 28057            |                  |
|                  |                          | S/T              | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 25079            | 25080            | 25080            | 25096            | 25554            | 26428            | 26423            | 26423            | 26424            | 26426            | 27400            | 27398            | 27394            | 27393            | 27396            | 29267            | 29259            | 29252            | 29250            | 29251            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             |                  |
|                  | 35°F<br>1.7°C            | TC               | 27201            | 27199            | 27197            | 27197            | 27235            | 28610            | 28608            | 28604            | 28604            | 28601            | 29607            | 29600            | 29599            | 29598            | 29594            | 31471            | 31464            | 31458            | 31457            | 31455            |                  |
|                  |                          | S/T              | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |                  |
|                  |                          | PI               | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |                  |
|                  | 41°F<br>5.0°C            | TC               | 27562            | 27559            | 27557            | 27557            | 27621            | 28978            | 28975            | 28972            | 28971            | 28969            | 29979            | 29974            | 29971            | 29971            | 29966            | 31855            | 31848            | 31842            | 31841            | 31839            |                  |
|                  |                          | S/T              | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.12             | 2.11             | 2.11             | 2.11             | 2.11             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.41             | 2.41             | 2.40             | 2.40             | 2.40             |                  |
|                  | 47°F<br>8.3°C            | TC               | 27918            | 27915            | 27913            | 27913            | 28010            | 29343            | 29340            | 29336            | 29336            | 29333            | 30352            | 30345            | 30343            | 30342            | 30338            | 32237            | 32229            | 32223            | 32222            | 32219            |                  |
|                  |                          | S/T              | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |                  |
|                  |                          | PI               | 2.01             | 2.01             | 2.01             | 2.01             | 2.02             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.45             | 2.44             | 2.44             | 2.44             | 2.44             |                  |
|                  | 50°F<br>10.0°C           | TC               | 27096            | 27100            | 27350            | 27572            | 28595            | 28735            | 28741            | 28750            | 28751            | 28857            | 29924            | 29927            | 29940            | 29943            | 29955            | 32229            | 32217            | 32221            | 32219            | 32248            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             |                  |
|                  | 59°F<br>15.0°C           | TC               | 25877            | 25917            | 26427            | 26581            | 27620            | 27523            | 27528            | 27534            | 27534            | 27703            | 28727            | 28720            | 28731            | 28733            | 28741            | 31036            | 31024            | 31026            | 31025            | 31048            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 2.31             | 2.31             | 2.31             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |                  |
|                  | 68°F<br>20.0°C           | TC               | 24683            | 24764            | 25463            | 25619            | 26667            | 26322            | 26327            | 26330            | 26331            | 26647            | 27518            | 27513            | 27523            | 27524            | 27529            | 29819            | 29806            | 29807            | 29806            | 29829            |                  |
|                  |                          | S/T              | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                  |                          | PI               | 2.36             | 2.36             | 2.37             | 2.37             | 2.39             | 2.38             | 2.38             | 2.38             | 2.38             | 2.39             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             |                  |
|                  | 77°F<br>25.0°C           | TC               | 23460            | 23576            | 24385            | 24544            | 25601            | 25101            | 25110            | 25115            | 25140            | 25638            | 26302            | 26300            | 26314            | 26316            | 26347            | 28611            | 28598            | 28602            | 28602            | 28635            |                  |
|                  |                          | S/T              | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 2.43             | 2.43             | 2.44             | 2.45             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |                  |
|                  | 82°F<br>27.8°C           | TC               | 23079            | 23228            | 24119            | 24279            | 25352            | 24736            | 24748            | 24769            | 24790            | 25389            | 25949            | 25950            | 25965            | 25967            | 26011            | 28284            | 28270            | 28275            | 28278            | 28316            |                  |
|                  |                          | S/T              | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 2.48             | 2.48             | 2.49             | 2.49             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             |                  |
|                  | 86°F<br>30.0°C           | TC               | 23149            | 23351            | 24324            | 24488            | 25590            | 24841            | 24852            | 24886            | 24911            | 25627            | 26076            | 26080            | 26093            | 26095            | 26154            | 28457            | 28443            | 28448            | 28455            | 28490            |                  |
|                  |                          | S/T              | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 2.51             | 2.52             | 2.53             | 2.53             | 2.54             | 2.54             | 2.54             | 2.54             | 2.54             | 2.54             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |                  |
|                  | 95°F<br>35.0°C           | TC               | 23664            | 23663            | 23665            | 23691            | 24298            | 25248            | 25242            | 25240            | 25240            | 25245            | 26391            | 26388            | 26382            | 26382            | 26383            | 28599            | 28589            | 28581            | 28580            | 28579            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             |                  |                  |                  |                  |

Table 10: COOLING PERFORMANCE 48K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1147             | -13°F<br>-25.0°C         | TC               | 23193            | 23188            | 23183            | 23183            | 23658            | 24237            | 24230            | 24224            | 24222            | 24214            | 24977            | 24969            | 24960            | 24959            | 24947            | 26365            | 26359            | 26348            | 26347            | 26330            |                  |
|                  |                          | S/T              | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |                  |
|                  |                          | PI               | 3.04             | 3.04             | 3.04             | 3.04             | 3.03             | 3.02             | 3.02             | 3.02             | 3.02             | 3.02             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             |
|                  | -4°F<br>-20.0°C          | TC               | 24977            | 24972            | 24967            | 24966            | 25478            | 26101            | 26094            | 26087            | 26086            | 26077            | 26898            | 26890            | 26880            | 26878            | 26866            | 28394            | 28386            | 28375            | 28374            | 28356            |                  |
|                  |                          | S/T              | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI               | 3.15             | 3.15             | 3.15             | 3.15             | 3.14             | 3.12             | 3.12             | 3.13             | 3.13             | 3.13             | 3.11             | 3.11             | 3.11             | 3.11             | 3.12             | 3.12             | 3.11             | 3.12             | 3.12             | 3.12             | 3.12             |
|                  | 0°F<br>-17.8°C           | TC               | 25794            | 25786            | 25781            | 25780            | 26422            | 26944            | 26934            | 26924            | 26922            | 26911            | 27757            | 27746            | 27734            | 27731            | 27714            | 29268            | 29262            | 29259            | 29257            | 29261            |                  |
|                  |                          | S/T              | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |                  |
|                  |                          | PI               | 3.18             | 3.18             | 3.18             | 3.18             | 3.17             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             |
|                  | 5°F<br>-15.0°C           | TC               | 26578            | 26580            | 26663            | 26701            | 27482            | 27872            | 27871            | 27875            | 27875            | 27909            | 28800            | 28799            | 28800            | 28801            | 28807            | 30570            | 30562            | 30562            | 30561            | 30563            |                  |
|                  |                          | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.22             | 3.22             | 3.22             | 3.22             | 3.22             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             |
|                  | 14°F<br>-10.0°C          | TC               | 29801            | 29794            | 29789            | 29787            | 30633            | 31323            | 31314            | 31305            | 31303            | 31293            | 32412            | 32401            | 32389            | 32387            | 32372            | 34480            | 34470            | 34456            | 34455            | 34433            |                  |
|                  |                          | S/T              | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI               | 3.20             | 3.20             | 3.20             | 3.20             | 3.19             | 3.18             | 3.18             | 3.19             | 3.19             | 3.19             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             |
|                  | 17°F<br>-8.3°C           | TC               | 30868            | 30858            | 30939            | 30982            | 31911            | 32445            | 32433            | 32441            | 32442            | 32476            | 33581            | 33581            | 33586            | 33588            | 33598            | 35784            | 35773            | 35777            | 35775            | 35783            |                  |
|                  |                          | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |                  |
|                  |                          | PI               | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             |
|                  | 23°F<br>-5.0°C           | TC               | 32098            | 32101            | 32231            | 32289            | 33349            | 33782            | 33781            | 33787            | 33788            | 33842            | 34992            | 34991            | 34994            | 34996            | 35004            | 37310            | 37299            | 37301            | 37299            | 37304            |                  |
|                  |                          | S/T              | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 2.98             | 2.98             | 2.98             | 2.98             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             |
|                  | 35°F<br>1.7°C            | TC               | 34871            | 34868            | 34869            | 34869            | 35317            | 36604            | 36598            | 36595            | 36595            | 36596            | 37821            | 37818            | 37812            | 37812            | 37810            | 40095            | 40085            | 40078            | 40076            | 40074            |                  |
|                  |                          | S/T              | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |                  |
|                  |                          | PI               | 2.45             | 2.45             | 2.45             | 2.45             | 2.48             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             | 2.94             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             |
|                  | 41°F<br>5.0°C            | TC               | 35239            | 35324            | 35324            | 35335            | 35917            | 37071            | 37064            | 37061            | 37062            | 37062            | 38297            | 38293            | 38287            | 38286            | 38285            | 40584            | 40575            | 40566            | 40564            | 40562            |                  |
|                  |                          | S/T              | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |                  |
|                  |                          | PI               | 2.46             | 2.47             | 2.47             | 2.47             | 2.52             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             |
|                  | 47°F<br>8.3°C            | TC               | 35779            | 35778            | 35777            | 35813            | 36518            | 37535            | 37529            | 37526            | 37526            | 37526            | 38772            | 38768            | 38762            | 38762            | 38761            | 41076            | 41066            | 41058            | 41057            | 41053            |                  |
|                  |                          | S/T              | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |                  |
|                  |                          | PI               | 2.49             | 2.49             | 2.49             | 2.50             | 2.56             | 2.66             | 2.66             | 2.66             | 2.66             | 2.66             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                  | 50°F<br>10.0°C           | TC               | 34656            | 34803            | 35786            | 35989            | 37349            | 36713            | 36736            | 36746            | 36784            | 37396            | 38204            | 38225            | 38248            | 38251            | 38306            | 41049            | 41034            | 41081            | 41093            | 41148            |                  |
|                  |                          | S/T              | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |                  |
|                  |                          | PI               | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             |
|                  | 59°F<br>15.0°C           | TC               | 33099            | 33335            | 34513            | 34719            | 36099            | 35170            | 35187            | 35240            | 35272            | 36146            | 36667            | 36686            | 36703            | 36705            | 36795            | 39546            | 39529            | 39568            | 39576            | 39618            |                  |
|                  |                          | S/T              | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |                  |
|                  |                          | PI               | 2.87             | 2.87             | 2.88             | 2.88             | 2.89             | 2.88             | 2.88             | 2.88             | 2.88             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             |
|                  | 68°F<br>20.0°C           | TC               | 31572            | 32102            | 33269            | 33476            | 34866            | 33638            | 33651            | 33744            | 33785            | 34911            | 35129            | 35148            | 35159            | 35161            | 35297            | 38003            | 37986            | 38023            | 38030            | 38062            |                  |
|                  |                          | S/T              | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                  |                          | PI               | 2.93             | 2.94             | 2.95             | 2.96             | 2.97             | 2.96             | 2.96             | 2.96             | 2.96             | 2.97             | 2.98             | 2.98             | 2.98             | 2.98             | 2.98             | 3.02             | 3.02             | 3.02             | 3.01             | 3.01             | 3.01             |
|                  | 77°F<br>25.0°C           | TC               | 30006            | 30706            | 31883            | 32092            | 33495            | 32081            | 32096            | 32219            | 32272            | 33538            | 33569            | 33598            | 33615            | 33617            | 33791            | 36449            | 36432            | 36489            | 36499            | 36540            |                  |
|                  |                          | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |                  |
|                  |                          | PI               | 3.02             | 3.03             | 3.04             | 3.04             | 3.06             | 3.05             | 3.04             | 3.05             | 3.05             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.10             | 3.10             | 3.09             | 3.09             | 3.09             | 3.09             |
|                  | 82°F<br>27.8°C           | TC               | 29543            | 30346            | 31540            | 31752            | 33176            | 31614            | 31631            | 31783            | 31846            | 33221            | 33116            | 33152            | 33169            | 33172            | 33381            | 36025            | 36031            | 36077            | 36087            | 36134            |                  |
|                  |                          | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |                  |
|                  |                          | PI               | 3.08             | 3.08             | 3.10             | 3.10             | 3.11             | 3.10             | 3.10             | 3.10             | 3.10             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             | 3.14             |
|                  | 86°F<br>30.0°C           | TC               | 29652            | 30588            | 31815            | 32031            | 33492            | 31751            | 31767            | 31956            | 32041            | 33536            | 33282            | 33318            | 33334            | 33336            | 33594            | 36249            | 36251            | 36304            | 36314            | 36356            |                  |
|                  |                          | S/T              | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |                  |
|                  |                          | PI               | 3.12             | 3.13             | 3.15             | 3.15             | 3.17             | 3.15             | 3.15             | 3.15             | 3.15             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             |
|                  | 95°F<br>35.0°C           | TC               | 30299            | 30305            | 30472            | 30550            | 31810            | 32280            | 32276            | 32285            | 32286            | 32343            | 33705            | 33704            | 33703            | 33704            | 33720            | 36451            | 36439            | 36428            | 36445            | 36435            |                  |
|                  |                          | S/T              | 0.77</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 10: COOLING PERFORMANCE 48K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>OR<br>DB °F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                              | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C         | TC                           | 29691            | 29681            | 29673            | 29845            | 30724            | 30999            | 30982            | 30968            | 30965            | 30944            | 31924            | 31907            | 31886            | 31882            | 31860            | 33676            | 33667            | 33642            | 33634            | 33583            |                  |
|                  |                          | S/T                          | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI                           | 3.80             | 3.80             | 3.80             | 3.80             | 3.78             | 3.77             | 3.78             | 3.78             | 3.78             | 3.78             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             |                  |
|                  | -4°F<br>-20.0°C          | TC                           | 31975            | 31964            | 31955            | 32141            | 33087            | 33383            | 33365            | 33350            | 33347            | 33324            | 34379            | 34362            | 34339            | 34335            | 34311            | 36266            | 36256            | 36230            | 36221            | 36167            |                  |
|                  |                          | S/T                          | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI                           | 3.94             | 3.94             | 3.94             | 3.93             | 3.92             | 3.91             | 3.91             | 3.91             | 3.91             | 3.91             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.92             | 3.92             | 3.92             | 3.92             | 3.92             |                  |
|                  | 0°F<br>-17.8°C           | TC                           | 33030            | 33016            | 33144            | 33397            | 34321            | 34471            | 34445            | 34425            | 34421            | 34416            | 35482            | 35461            | 35429            | 35424            | 35392            | 37394            | 37383            | 37385            | 37389            | 37417            |                  |
|                  |                          | S/T                          | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI                           | 3.97             | 3.97             | 3.97             | 3.97             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |                  |
|                  | 5°F<br>-15.0°C           | TC                           | 34002            | 34033            | 34492            | 34650            | 35709            | 35619            | 35626            | 35630            | 35631            | 35806            | 36785            | 36782            | 36792            | 36792            | 36797            | 38983            | 38971            | 38972            | 38974            | 38996            |                  |
|                  |                          | S/T                          | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI                           | 4.00             | 4.00             | 4.00             | 4.00             | 4.02             | 4.01             | 4.01             | 4.01             | 4.01             | 4.02             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.11             | 4.11             | 4.11             | 4.11             | 4.12             |                  |
|                  | 14°F<br>-10.0°C          | TC                           | 38130            | 38116            | 38274            | 38608            | 39807            | 40044            | 40021            | 40002            | 39999            | 39978            | 41428            | 41408            | 41376            | 41371            | 41336            | 44033            | 44020            | 43987            | 43978            | 43910            |                  |
|                  |                          | S/T                          | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI                           | 4.01             | 4.01             | 4.01             | 4.00             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.99             | 3.99             | 3.99             | 4.00             | 4.00             |                  |
|                  | 17°F<br>-8.3°C           | TC                           | 39550            | 39560            | 40045            | 40276            | 41572            | 41536            | 41539            | 41548            | 41549            | 41746            | 42860            | 42877            | 42904            | 42907            | 42917            | 45711            | 45697            | 45702            | 45710            | 45753            |                  |
|                  |                          | S/T                          | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI                           | 3.97             | 3.97             | 3.97             | 3.97             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             |                  |
|                  | 23°F<br>-5.0°C           | TC                           | 41062            | 41119            | 41788            | 41993            | 43366            | 43170            | 43181            | 43186            | 43187            | 43443            | 44692            | 44690            | 44704            | 44706            | 44713            | 47573            | 47559            | 47560            | 47567            | 47599            |                  |
|                  |                          | S/T                          | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                  |                          | PI                           | 3.72             | 3.72             | 3.73             | 3.73             | 3.75             | 3.75             | 3.75             | 3.75             | 3.75             | 3.75             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.84             | 3.83             | 3.84             | 3.84             | 3.84             |                  |
|                  | 35°F<br>1.7°C            | TC                           | 44665            | 44666            | 44752            | 44803            | 45954            | 46808            | 46801            | 46803            | 46805            | 46805            | 48312            | 48309            | 48303            | 48303            | 48309            | 51110            | 51098            | 51087            | 51094            | 51085            |                  |
|                  |                          | S/T                          | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI                           | 3.06             | 3.06             | 3.07             | 3.07             | 3.17             | 3.24             | 3.24             | 3.24             | 3.24             | 3.25             | 3.39             | 3.39             | 3.38             | 3.38             | 3.39             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             |                  |
|                  | 41°F<br>5.0°C            | TC                           | 45243            | 45244            | 45369            | 45431            | 46720            | 47403            | 47398            | 47399            | 47400            | 47441            | 48920            | 48914            | 48911            | 48911            | 48917            | 51736            | 51724            | 51713            | 51719            | 51711            |                  |
|                  |                          | S/T                          | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                  |                          | PI                           | 3.09             | 3.09             | 3.11             | 3.12             | 3.22             | 3.28             | 3.28             | 3.28             | 3.28             | 3.29             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             |                  |
|                  | 47°F<br>8.3°C            | TC                           | 45818            | 45818            | 45995            | 46075            | 47492            | 47998            | 47992            | 47993            | 47993            | 48066            | 49527            | 49522            | 49518            | 49518            | 49521            | 52369            | 52356            | 52352            | 52350            | 52343            |                  |
|                  |                          | S/T                          | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI                           | 3.12             | 3.12             | 3.14             | 3.15             | 3.28             | 3.33             | 3.33             | 3.33             | 3.33             | 3.33             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             |                  |
|                  | 50°F<br>10.0°C           | TC                           | 44317            | 45042            | 46546            | 46813            | 48606            | 46921            | 46949            | 47101            | 47162            | 48663            | 48769            | 48832            | 48860            | 48863            | 49084            | 52282            | 52308            | 52435            | 52449            | 52519            |                  |
|                  |                          | S/T                          | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                  |                          | PI                           | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             |                  |
|                  | 59°F<br>15.0°C           | TC                           | 42366            | 43386            | 44913            | 45184            | 47002            | 44952            | 44971            | 45195            | 45282            | 47056            | 46818            | 46868            | 46887            | 46889            | 47199            | 50393            | 50407            | 50506            | 50517            | 50567            |                  |
|                  |                          | S/T                          | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                  |                          | PI                           | 3.60             | 3.60             | 3.61             | 3.61             | 3.62             | 3.61             | 3.61             | 3.61             | 3.62             | 3.63             | 3.63             | 3.63             | 3.62             | 3.62             | 3.63             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             |                  |
|                  | 68°F<br>20.0°C           | TC                           | 40465            | 41770            | 43307            | 43580            | 45413            | 42994            | 43007            | 43344            | 43627            | 45463            | 44865            | 44902            | 44915            | 44916            | 45427            | 48445            | 48461            | 48538            | 48547            | 48582            |                  |
|                  |                          | S/T                          | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                  |                          | PI                           | 3.67             | 3.69             | 3.71             | 3.71             | 3.74             | 3.71             | 3.71             | 3.71             | 3.71             | 3.74             | 3.73             | 3.73             | 3.73             | 3.73             | 3.74             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             |                  |
|                  | 77°F<br>25.0°C           | TC                           | 38498            | 39973            | 41523            | 41798            | 43646            | 41001            | 41020            | 41492            | 41848            | 43697            | 42873            | 42922            | 42942            | 42992            | 43736            | 46434            | 46476            | 46580            | 46591            | 46641            |                  |
|                  |                          | S/T                          | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI                           | 3.79             | 3.80             | 3.82             | 3.82             | 3.84             | 3.82             | 3.82             | 3.82             | 3.83             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.88             | 3.88             | 3.88             | 3.88             | 3.87             |                  |
|                  | 82°F<br>27.8°C           | TC                           | 37903            | 39510            | 41085            | 41365            | 43246            | 40405            | 40471            | 41135            | 41415            | 43295            | 42295            | 42352            | 42373            | 42439            | 43334            | 45877            | 45935            | 46050            | 46063            | 46118            |                  |
|                  |                          | S/T                          | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                  |                          | PI                           | 3.86             | 3.87             | 3.89             | 3.89             | 3.91             | 3.88             | 3.88             | 3.89             | 3.89             | 3.91             | 3.91             | 3.90             | 3.90             | 3.90             | 3.91             | 3.95             | 3.95             | 3.94             | 3.94             | 3.94             |                  |
|                  | 86°F<br>30.0°C           | TC                           | 38021            | 39782            | 41396            | 41681            | 43624            | 40532            | 40616            | 41446            | 41732            | 43658            | 42465            | 42516            | 42582            | 42621            | 43699            | 46116            | 46182            | 46290            | 46302            | 46350            |                  |
|                  |                          | S/T                          | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                  |                          | PI                           | 3.91             | 3.93             | 3.95             | 3.96             | 3.98             | 3.94             | 3.94             | 3.95             | 3.96             | 3.98             | 3.97             | 3.97             | 3.97             | 3.97             | 3.98             | 4.02             | 4.02             | 4.01             | 4.01             | 4.01             |                  |
|                  | 95°F<br>35.0°C           | TC                           | 38767            | 38836            | 39670            | 39903            | 41468            | 41247            | 41257            | 41271            | 41273            | 41553            | 43028            | 43032            | 43054            | 43058            | 43077            | 46449            | 46433            | 46438            | 46435            | 46470            |                  |
|                  |                          | S/T                          | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI                           | 3.90             | 3.90             | 3.94             | 3.95             | 4.03             | 4.02             | 4.02             | 4.02             | 4.02             | 4.03             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.28             | 4.28             | 4.28             | 4.2              |                  |                  |

Table 10: COOLING PERFORMANCE 48K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C)<br>ID DB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                      | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              |
| 2206             | -13°F<br>-25.0°C         | TC                                   | 37991            | 37974            | 38515            | 38675            | 39739            | 39638            | 39605            | 39580            | 39577            | 39544            | 40823            | 40772            | 40733            | 40728            | 40689            | 43061            | 43049            | 42961            | 42945            | 42854            |
|                  |                          | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                   | 4.80             | 4.80             | 4.79             | 4.78             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.76             | 4.77             | 4.77             | 4.77             | 4.77             | 4.79             | 4.79             | 4.79             | 4.79             | 4.80             |
|                  | -4°F<br>-20.0°C          | TC                                   | 40913            | 40895            | 41478            | 41650            | 42796            | 42687            | 42652            | 42625            | 42621            | 42586            | 43964            | 43908            | 43867            | 43861            | 43819            | 46373            | 46360            | 46265            | 46248            | 46150            |
|                  |                          | S/T                                  | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                   | 4.97             | 4.97             | 4.96             | 4.96             | 4.94             | 4.94             | 4.94             | 4.94             | 4.94             | 4.95             | 4.93             | 4.94             | 4.94             | 4.94             | 4.94             | 4.96             | 4.96             | 4.97             | 4.97             | 4.97             |
|                  | 0°F<br>-17.8°C           | TC                                   | 42271            | 42246            | 43030            | 43210            | 44396            | 44084            | 44035            | 44001            | 43996            | 44439            | 45380            | 45316            | 45259            | 45253            | 45231            | 47821            | 47809            | 47805            | 47812            | 47843            |
|                  |                          | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                                   | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.00             | 5.00             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.07             | 5.07             | 5.07             | 5.07             | 5.07             |
|                  | 5°F<br>-15.0°C           | TC                                   | 43483            | 43633            | 44630            | 44836            | 46218            | 45523            | 45534            | 45537            | 45584            | 46263            | 46978            | 46990            | 47000            | 47001            | 47064            | 49734            | 49719            | 49745            | 49750            | 49772            |
|                  |                          | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                   | 5.05             | 5.05             | 5.06             | 5.06             | 5.09             | 5.07             | 5.07             | 5.07             | 5.07             | 5.09             | 5.11             | 5.11             | 5.11             | 5.11             | 5.11             | 5.22             | 5.22             | 5.22             | 5.22             | 5.22             |
|                  | 14°F<br>-10.0°C          | TC                                   | 48799            | 48775            | 49770            | 50004            | 51554            | 51222            | 51177            | 51142            | 51136            | 51615            | 52977            | 52910            | 52857            | 52848            | 52795            | 56331            | 56314            | 56206            | 56186            | 56066            |
|                  |                          | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                   | 5.06             | 5.06             | 5.05             | 5.05             | 5.04             | 5.04             | 5.04             | 5.04             | 5.04             | 5.04             | 5.03             | 5.04             | 5.04             | 5.04             | 5.04             | 5.06             | 5.06             | 5.06             | 5.06             | 5.06             |
|                  | 17°F<br>-8.3°C           | TC                                   | 50448            | 50613            | 51782            | 52035            | 53725            | 52959            | 52981            | 52991            | 53035            | 53783            | 54767            | 54787            | 54809            | 54811            | 54879            | 58246            | 58230            | 58221            | 58232            | 58280            |
|                  |                          | S/T                                  | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                                   | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.00             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.01             | 5.02             | 5.05             | 5.05             | 5.05             | 5.05             | 5.06             |
|                  | 23°F<br>-5.0°C           | TC                                   | 52512            | 52738            | 54102            | 54369            | 56161            | 55171            | 55187            | 55193            | 55266            | 56221            | 57074            | 57093            | 57108            | 57110            | 57202            | 60687            | 60668            | 60711            | 60719            | 60754            |
|                  |                          | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                   | 4.70             | 4.71             | 4.72             | 4.73             | 4.75             | 4.74             | 4.74             | 4.74             | 4.74             | 4.75             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.86             | 4.86             | 4.86             | 4.86             | 4.86             |
|                  | 35°F<br>1.7°C            | TC                                   | 57162            | 57164            | 57500            | 57660            | 59520            | 59834            | 59832            | 59837            | 59837            | 59996            | 61707            | 61703            | 61706            | 61708            | 61714            | 65182            | 65166            | 65163            | 65160            | 65166            |
|                  |                          | S/T                                  | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                                   | 3.87             | 3.87             | 3.90             | 3.91             | 4.08             | 4.10             | 4.10             | 4.10             | 4.10             | 4.12             | 4.28             | 4.28             | 4.28             | 4.28             | 4.28             | 4.66             | 4.65             | 4.65             | 4.65             | 4.65             |
|                  | 41°F<br>5.0°C            | TC                                   | 57899            | 57900            | 58361            | 58766            | 60503            | 60592            | 60591            | 60594            | 60594            | 60807            | 62482            | 62478            | 62482            | 62483            | 62487            | 65988            | 65972            | 65968            | 65964            | 65972            |
|                  |                          | S/T                                  | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                   | 3.91             | 3.91             | 3.95             | 3.98             | 4.15             | 4.15             | 4.15             | 4.15             | 4.16             | 4.18             | 4.34             | 4.34             | 4.34             | 4.34             | 4.34             | 4.73             | 4.73             | 4.73             | 4.73             | 4.73             |
|                  | 47°F<br>8.3°C            | TC                                   | 58635            | 58673            | 59460            | 59726            | 61493            | 61353            | 61351            | 61353            | 61352            | 61636            | 63258            | 63253            | 63257            | 63256            | 63256            | 66800            | 66783            | 66777            | 66775            | 66781            |
|                  |                          | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                          | PI                                   | 3.95             | 3.96             | 4.03             | 4.05             | 4.23             | 4.21             | 4.21             | 4.21             | 4.21             | 4.24             | 4.41             | 4.41             | 4.41             | 4.41             | 4.41             | 4.80             | 4.80             | 4.80             | 4.80             | 4.80             |
|                  | 50°F<br>10.0°C           | TC                                   | 56760            | 58322            | 60290            | 60640            | 62991            | 59964            | 59997            | 60412            | 60602            | 63051            | 62303            | 62384            | 62417            | 62421            | 63021            | 66598            | 66773            | 66945            | 66965            | 67049            |
|                  |                          | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                          | PI                                   | 4.46             | 4.46             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.44             |
|                  | 59°F<br>15.0°C           | TC                                   | 54294            | 56199            | 58194            | 58548            | 60930            | 57446            | 57524            | 58177            | 58611            | 60991            | 59816            | 59876            | 59897            | 59984            | 61041            | 64230            | 64359            | 64487            | 64502            | 64555            |
|                  |                          | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                                   | 4.55             | 4.56             | 4.58             | 4.58             | 4.59             | 4.57             | 4.57             | 4.58             | 4.58             | 4.59             | 4.59             | 4.59             | 4.59             | 4.59             | 4.59             | 4.62             | 4.62             | 4.61             | 4.61             | 4.61             |
|                  | 68°F<br>20.0°C           | TC                                   | 51820            | 54032            | 56035            | 56392            | 58784            | 54859            | 54983            | 56096            | 56453            | 58843            | 57231            | 57274            | 57377            | 57427            | 58891            | 61667            | 61781            | 61878            | 61888            | 61920            |
|                  |                          | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                  |                          | PI                                   | 4.65             | 4.68             | 4.70             | 4.71             | 4.74             | 4.69             | 4.69             | 4.70             | 4.71             | 4.74             | 4.72             | 4.72             | 4.72             | 4.72             | 4.74             | 4.79             | 4.78             | 4.78             | 4.78             | 4.78             |
|                  | 77°F<br>25.0°C           | TC                                   | 49322            | 51697            | 53720            | 54078            | 56494            | 52288            | 52454            | 53779            | 54138            | 56551            | 54656            | 54717            | 54857            | 54918            | 56599            | 59031            | 59210            | 59347            | 59361            | 59416            |
|                  |                          | S/T                                  | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                  |                          | PI                                   | 4.79             | 4.82             | 4.84             | 4.85             | 4.87             | 4.83             | 4.83             | 4.84             | 4.85             | 4.87             | 4.86             | 4.85             | 4.85             | 4.85             | 4.87             | 4.91             | 4.91             | 4.90             | 4.90             | 4.90             |
|                  | 82°F<br>27.8°C           | TC                                   | 48598            | 51079            | 53139            | 53499            | 55949            | 51499            | 51697            | 53185            | 53559            | 56008            | 53894            | 53962            | 54130            | 54197            | 56057            | 58271            | 58490            | 58642            | 58658            | 58722            |
|                  |                          | S/T                                  | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                  |                          | PI                                   | 4.88             | 4.91             | 4.93             | 4.93             | 4.96             | 4.91             | 4.91             | 4.93             | 4.93             | 4.96             | 4.94             | 4.94             | 4.94             | 4.94             | 4.96             | 5.00             | 4.99             | 4.99             | 4.99             | 4.98             |
|                  | 86°F<br>30.0°C           | TC                                   | 49012            | 51459            | 53563            | 53937            | 56449            | 51687            | 51925            | 53623            | 53998            | 56507            | 54137            | 54199            | 54398            | 54476            | 56556            | 58609            | 58835            | 58975            | 58989            | 59044            |
|                  |                          | S/T                                  | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                  |                          | PI                                   | 4.96             | 4.98             | 5.01             | 5.01             | 5.04             | 4.99             | 4.99             | 5.01             | 5.01             | 5.04             | 5.02             | 5.02             | 5.02             | 5.02             | 5.04             | 5.09             | 5.08             | 5.07             | 5.07             | 5.07             |
|                  | 95°F<br>35.0°C           | TC                                   | 49580            | 49848            | 51459            | 51764            | 53810            | 52694            | 52724            | 52741            | 52803            | 53877            | 54955            | 54966            | 55000            | 55005            | 55096            | 59216            | 59194            | 59206            | 59223            | 59302            |
|                  |                          | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             |                  |                  |                  |                  |                  |                  |                  |

Table 11: COOLING PERFORMANCE 60K - NON-DUCTED

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C)<br>ID DB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|-----------------------|--------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       |                          |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                       |                          |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1201                  | -13°F<br>-25.0°C         | TC                                   | 25200            | 25197            | 25193            | 25193            | 25188            | 26373            | 26366            | 26362            | 26361            | 26356            | 27205            | 27198            | 27192            | 27191            | 27185            | 28765            | 28757            | 28751            | 28749            | 28740            |
|                       |                          | S/T                                  | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                       |                          | PI                                   | 2.66             | 2.66             | 2.66             | 2.66             | 2.66             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.61             | 2.61             | 2.61             | 2.61             | 2.61             |
|                       | -4°F<br>-20.0°C          | TC                                   | 27139            | 27135            | 27131            | 27131            | 27126            | 28402            | 28395            | 28390            | 28389            | 28384            | 29297            | 29290            | 29283            | 29282            | 29276            | 30978            | 30969            | 30962            | 30961            | 30951            |
|                       |                          | S/T                                  | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                       |                          | PI                                   | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |
|                       | 0°F<br>-17.8°C           | TC                                   | 28022            | 28016            | 28012            | 28011            | 28003            | 29313            | 29307            | 29301            | 29300            | 29292            | 30228            | 30220            | 30213            | 30212            | 30202            | 31933            | 31925            | 31919            | 31918            | 31905            |
|                       |                          | S/T                                  | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                       |                          | PI                                   | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             |
|                       | 5°F<br>-15.0°C           | TC                                   | 28901            | 28901            | 28901            | 28901            | 29333            | 30344            | 30339            | 30338            | 30338            | 30341            | 31381            | 31380            | 31375            | 31374            | 31377            | 33371            | 33362            | 33354            | 33353            | 33353            |
|                       |                          | S/T                                  | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                   | 2.81             | 2.81             | 2.81             | 2.81             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.84             | 2.84             | 2.84             | 2.84             | 2.84             |
|                       | 14°F<br>-10.0°C          | TC                                   | 29282            | 29279            | 29275            | 29274            | 29417            | 30820            | 30812            | 30807            | 30806            | 30801            | 31918            | 31910            | 31902            | 31901            | 31894            | 34004            | 33994            | 33986            | 33984            | 33974            |
|                       |                          | S/T                                  | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                       |                          | PI                                   | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.52             | 2.52             | 2.53             | 2.53             | 2.53             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             |
|                       | 17°F<br>-8.3°C           | TC                                   | 29432            | 29426            | 29421            | 29421            | 29845            | 30975            | 30968            | 30962            | 30961            | 30961            | 32084            | 32083            | 32078            | 32077            | 32082            | 34250            | 34241            | 34233            | 34231            | 34233            |
|                       |                          | S/T                                  | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                   | 2.45             | 2.45             | 2.45             | 2.45             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             |
|                       | 23°F<br>-5.0°C           | TC                                   | 29375            | 29376            | 29376            | 29395            | 29932            | 30956            | 30950            | 30950            | 30951            | 30954            | 32094            | 32092            | 32087            | 32086            | 32090            | 34281            | 34271            | 34263            | 34262            | 34262            |
|                       |                          | S/T                                  | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                       |                          | PI                                   | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             |
|                       | 35°F<br>1.7°C            | TC                                   | 29504            | 29501            | 29499            | 29499            | 29540            | 31032            | 31029            | 31025            | 31025            | 31022            | 32113            | 32106            | 32105            | 32104            | 32099            | 34135            | 34127            | 34121            | 34119            | 34118            |
|                       |                          | S/T                                  | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                       |                          | PI                                   | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             |
|                       | 41°F<br>5.0°C            | TC                                   | 29482            | 29479            | 29477            | 29477            | 29546            | 30997            | 30994            | 30990            | 30990            | 30987            | 32068            | 32062            | 32059            | 32059            | 32053            | 34074            | 34067            | 34060            | 34059            | 34057            |
|                       |                          | S/T                                  | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                       |                          | PI                                   | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             |
|                       | 47°F<br>8.3°C            | TC                                   | 29455            | 29452            | 29450            | 29450            | 29552            | 30959            | 30955            | 30951            | 30951            | 30949            | 32023            | 32016            | 32014            | 32013            | 32008            | 34012            | 34004            | 33998            | 33997            | 33993            |
|                       |                          | S/T                                  | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                       |                          | PI                                   | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.96             | 2.95             | 2.95             | 2.95             | 2.95             |
|                       | 50°F<br>10.0°C           | TC                                   | 28856            | 28860            | 29126            | 29363            | 30453            | 30601            | 30608            | 30617            | 30618            | 30731            | 31868            | 31871            | 31885            | 31888            | 31900            | 34322            | 34309            | 34314            | 34312            | 34342            |
|                       |                          | S/T                                  | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                       |                          | PI                                   | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             |
|                       | 59°F<br>15.0°C           | TC                                   | 28368            | 28412            | 28970            | 29140            | 30279            | 30172            | 30178            | 30184            | 30185            | 30370            | 31492            | 31485            | 31497            | 31499            | 31508            | 34024            | 34010            | 34013            | 34011            | 34036            |
|                       |                          | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                       |                          | PI                                   | 2.75             | 2.75             | 2.75             | 2.75             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             |
|                       | 68°F<br>20.0°C           | TC                                   | 27900            | 27991            | 28782            | 28958            | 30142            | 29753            | 29758            | 29762            | 29763            | 30120            | 31104            | 31098            | 31110            | 31111            | 31117            | 33705            | 33691            | 33692            | 33691            | 33717            |
|                       |                          | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                       |                          | PI                                   | 2.77             | 2.78             | 2.79             | 2.79             | 2.81             | 2.80             | 2.80             | 2.80             | 2.80             | 2.81             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             |
|                       | 77°F<br>25.0°C           | TC                                   | 27391            | 27526            | 28471            | 28656            | 29890            | 29307            | 29317            | 29323            | 29352            | 29933            | 30708            | 30706            | 30722            | 30724            | 30761            | 33405            | 33389            | 33394            | 33394            | 33433            |
|                       |                          | S/T                                  | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                       |                          | PI                                   | 2.83             | 2.83             | 2.84             | 2.84             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.86             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.90             | 2.90             | 2.90             | 2.90             | 2.90             |
|                       | 82°F<br>27.8°C           | TC                                   | 27402            | 27579            | 28637            | 28827            | 30100            | 29369            | 29383            | 29408            | 29434            | 30144            | 30809            | 30811            | 30828            | 30831            | 30883            | 33581            | 33565            | 33571            | 33574            | 33619            |
|                       |                          | S/T                                  | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                       |                          | PI                                   | 2.90             | 2.90             | 2.91             | 2.91             | 2.93             | 2.92             | 2.92             | 2.92             | 2.92             | 2.93             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             |
|                       | 86°F<br>30.0°C           | TC                                   | 27784            | 28027            | 29195            | 29392            | 30713            | 29815            | 29828            | 29869            | 29899            | 30758            | 31298            | 31302            | 31318            | 31320            | 31391            | 34155            | 34139            | 34145            | 34152            | 34195            |
|                       |                          | S/T                                  | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                       |                          | PI                                   | 2.99             | 3.00             | 3.01             | 3.01             | 3.03             | 3.02             | 3.02             | 3.02             | 3.02             | 3.03             | 3.04             | 3.04             | 3.04             | 3.04             | 3.04             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             |
|                       | 95°F<br>35.0°C           | TC                                   | 29080            | 29079            | 29081            | 29114            | 29859            | 31027            | 31019            | 31017            | 31017            | 31023            | 32431            | 32428            | 32421            | 32420            | 32421            | 35144            | 35132            | 35122            | 35121            | 35121            |
|                       |                          | S/T                                  | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             |                  |                  |                  |

Table 11: COOLING PERFORMANCE 60K - NON-DUCTED (Continued)

| AIRFLOW<br>W<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>OR<br>DB °F<br>(°C) | 60.8°F(16.0°C)   |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |        |
|-----------------------|--------------------------|------------------------------|------------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------|
|                       |                          |                              | ID DB<br>°F (°C) | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F       | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F         | 73.4°F | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|                       |                          |                              |                  | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C       | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C         | 23.0°C | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 1561                  | -13°F<br>-25.0°C         | TC                           | 31361            | 31355  | 31348  | 31348  | 31991  | 32773          | 32764  | 32755  | 32754  | 32743  | 33774        | 33763  | 33751  | 33749  | 33734  | 35651          | 35642  | 35628  | 35627  | 35604  |        |
|                       |                          | S/T                          | 0.75             | 0.84   | 0.92   | 0.93   | 1.00   | 0.61           | 0.70   | 0.78   | 0.79   | 0.88   | 0.52         | 0.61   | 0.69   | 0.70   | 0.79   | 0.38           | 0.46   | 0.53   | 0.54   | 0.62   |        |
|                       |                          | PI                           | 3.19             | 3.19   | 3.19   | 3.19   | 3.18   | 3.16           | 3.17   | 3.17   | 3.17   | 3.17   | 3.15         | 3.15   | 3.16   | 3.16   | 3.16   | 3.16           | 3.16   | 3.16   | 3.16   | 3.16   |        |
|                       | -4°F<br>-20.0°C          | TC                           | 33774            | 33766  | 33760  | 33759  | 34452  | 35294          | 35284  | 35275  | 35273  | 35261  | 36372        | 36360  | 36348  | 36345  | 36329  | 38394          | 38384  | 38369  | 38367  | 38342  |        |
|                       |                          | S/T                          | 0.75             | 0.84   | 0.92   | 0.94   | 1.00   | 0.61           | 0.71   | 0.78   | 0.79   | 0.88   | 0.53         | 0.61   | 0.69   | 0.70   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                          | PI                           | 3.31             | 3.31   | 3.31   | 3.31   | 3.29   | 3.28           | 3.28   | 3.28   | 3.28   | 3.28   | 3.27         | 3.27   | 3.27   | 3.27   | 3.27   | 3.27           | 3.27   | 3.27   | 3.27   | 3.27   |        |
|                       | 0°F<br>-17.8°C           | TC                           | 34878            | 34868  | 34861  | 34859  | 35728  | 36433          | 36420  | 36406  | 36404  | 36388  | 37533        | 37518  | 37502  | 37498  | 37475  | 39576          | 39568  | 39564  | 39561  | 39566  |        |
|                       |                          | S/T                          | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI                           | 3.33             | 3.34   | 3.34   | 3.34   | 3.33   | 3.32           | 3.32   | 3.32   | 3.32   | 3.32   | 3.32         | 3.32   | 3.32   | 3.32   | 3.32   | 3.34           | 3.34   | 3.34   | 3.34   | 3.34   |        |
|                       | 5°F<br>-15.0°C           | TC                           | 35938            | 35942  | 36054  | 36105  | 37161  | 37689          | 37687  | 37692  | 37693  | 37738  | 38943        | 38941  | 38944  | 38945  | 38953  | 41337          | 41325  | 41326  | 41324  | 41327  |        |
|                       |                          | S/T                          | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                          | PI                           | 3.37             | 3.37   | 3.37   | 3.37   | 3.36   | 3.37           | 3.37   | 3.37   | 3.37   | 3.37   | 3.38         | 3.38   | 3.38   | 3.38   | 3.38   | 3.43           | 3.43   | 3.43   | 3.43   | 3.44   |        |
|                       | 14°F<br>-10.0°C          | TC                           | 36434            | 36426  | 36419  | 36417  | 37452  | 38295          | 38283  | 38273  | 38271  | 38258  | 39625        | 39612  | 39598  | 39596  | 39577  | 42154          | 42142  | 42125  | 42124  | 42096  |        |
|                       |                          | S/T                          | 0.75             | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.89   | 0.53         | 0.62   | 0.69   | 0.71   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |        |
|                       |                          | PI                           | 3.07             | 3.07   | 3.07   | 3.07   | 3.06   | 3.05           | 3.05   | 3.05   | 3.05   | 3.05   | 3.04         | 3.04   | 3.05   | 3.05   | 3.05   | 3.05           | 3.05   | 3.05   | 3.05   | 3.05   |        |
|                       | 17°F<br>-8.3°C           | TC                           | 36595            | 36583  | 36679  | 36730  | 37831  | 38464          | 38450  | 38459  | 38461  | 38501  | 39811        | 39810  | 39816  | 39819  | 39831  | 42422          | 42410  | 42414  | 42412  | 42421  |        |
|                       |                          | S/T                          | 0.76             | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI                           | 2.94             | 2.94   | 2.94   | 2.94   | 2.94   | 2.93           | 2.93   | 2.94   | 2.94   | 2.94   | 2.93         | 2.93   | 2.93   | 2.93   | 2.93   | 2.95           | 2.95   | 2.95   | 2.95   | 2.95   |        |
|                       | 23°F<br>-5.0°C           | TC                           | 36531            | 36534  | 36683  | 36748  | 37955  | 38448          | 38447  | 38453  | 38454  | 38516  | 39825        | 39824  | 39827  | 39829  | 39838  | 42463          | 42450  | 42452  | 42450  | 42456  |        |
|                       |                          | S/T                          | 0.77             | 0.87   | 0.95   | 0.97   | 1.00   | 0.62           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.63   | 0.71   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |        |
|                       |                          | PI                           | 2.86             | 2.86   | 2.86   | 2.86   | 2.87   | 2.87           | 2.87   | 2.87   | 2.87   | 2.87   | 2.89         | 2.89   | 2.89   | 2.89   | 2.89   | 2.93           | 2.93   | 2.93   | 2.93   | 2.93   |        |
|                       | 35°F<br>1.7°C            | TC                           | 36750            | 36747  | 36748  | 36748  | 37221  | 38577          | 38570  | 38567  | 38567  | 38568  | 39859        | 39856  | 39849  | 39849  | 39847  | 42255          | 42245  | 42237  | 42235  | 42234  |        |
|                       |                          | S/T                          | 0.73             | 0.81   | 0.89   | 0.90   | 1.00   | 0.60           | 0.68   | 0.76   | 0.77   | 0.85   | 0.52         | 0.60   | 0.67   | 0.68   | 0.76   | 0.39           | 0.47   | 0.52   | 0.53   | 0.60   |        |
|                       |                          | PI                           | 2.53             | 2.53   | 2.53   | 2.53   | 2.56   | 2.67           | 2.67   | 2.67   | 2.67   | 2.67   | 2.79         | 2.79   | 2.79   | 2.79   | 2.79   | 3.03           | 3.03   | 3.03   | 3.03   | 3.03   |        |
|                       | 41°F<br>5.0°C            | TC                           | 36625            | 36713  | 36714  | 36725  | 37329  | 38529          | 38522  | 38518  | 38519  | 38520  | 39803        | 39800  | 39793  | 39792  | 39791  | 42180          | 42171  | 42162  | 42160  | 42157  |        |
|                       |                          | S/T                          | 0.74             | 0.82   | 0.90   | 0.91   | 1.00   | 0.60           | 0.69   | 0.76   | 0.78   | 0.86   | 0.52         | 0.60   | 0.67   | 0.69   | 0.77   | 0.39           | 0.45   | 0.52   | 0.53   | 0.61   |        |
|                       |                          | PI                           | 2.72             | 2.73   | 2.73   | 2.73   | 2.78   | 2.90           | 2.90   | 2.90   | 2.90   | 2.90   | 3.03         | 3.03   | 3.03   | 3.03   | 3.03   | 3.30           | 3.30   | 3.30   | 3.30   | 3.30   |        |
|                       | 47°F<br>8.3°C            | TC                           | 36679            | 36677  | 36677  | 36713  | 37436  | 38479          | 38472  | 38469  | 38469  | 38470  | 39747        | 39743  | 39737  | 39736  | 39735  | 42108          | 42098  | 42090  | 42089  | 42086  |        |
|                       |                          | S/T                          | 0.74             | 0.83   | 0.91   | 0.92   | 1.00   | 0.61           | 0.70   | 0.77   | 0.78   | 0.87   | 0.52         | 0.61   | 0.68   | 0.69   | 0.78   | 0.39           | 0.45   | 0.52   | 0.53   | 0.62   |        |
|                       |                          | PI                           | 2.93             | 2.93   | 2.93   | 2.93   | 3.01   | 3.13           | 3.13   | 3.13   | 3.13   | 3.13   | 3.27         | 3.26   | 3.26   | 3.26   | 3.26   | 3.56           | 3.56   | 3.56   | 3.56   | 3.56   |        |
|                       | 50°F<br>10.0°C           | TC                           | 35861            | 36013  | 37029  | 37239  | 38647  | 37989          | 38012  | 38023  | 38062  | 38695  | 39531        | 39553  | 39577  | 39580  | 39637  | 42475          | 42460  | 42509  | 42521  | 42578  |        |
|                       |                          | S/T                          | 0.83             | 0.95   | 1.00   | 1.00   | 1.00   | 0.66           | 0.78   | 0.87   | 0.88   | 1.00   | 0.55         | 0.66   | 0.76   | 0.77   | 0.88   | 0.39           | 0.48   | 0.56   | 0.58   | 0.68   |        |
|                       |                          | PI                           | 3.28             | 3.28   | 3.29   | 3.29   | 3.28   | 3.29           | 3.29   | 3.29   | 3.29   | 3.28   | 3.28         | 3.28   | 3.28   | 3.28   | 3.28   | 3.28           | 3.28   | 3.28   | 3.28   | 3.28   |        |
|                       | 59°F<br>15.0°C           | TC                           | 35256            | 35508  | 36763  | 36982  | 38452  | 37462          | 37480  | 37536  | 37571  | 38501  | 39057        | 39077  | 39096  | 39098  | 39193  | 42123          | 42105  | 42147  | 42156  | 42200  |        |
|                       |                          | S/T                          | 0.85             | 0.97   | 1.00   | 1.00   | 1.00   | 0.67           | 0.79   | 0.89   | 0.91   | 1.00   | 0.56         | 0.68   | 0.77   | 0.79   | 0.90   | 0.39           | 0.48   | 0.57   | 0.59   | 0.69   |        |
|                       |                          | PI                           | 3.32             | 3.32   | 3.33   | 3.33   | 3.34   | 3.33           | 3.33   | 3.33   | 3.33   | 3.34   | 3.34         | 3.34   | 3.34   | 3.34   | 3.34   | 3.36           | 3.36   | 3.36   | 3.36   | 3.36   |        |
|                       | 68°F<br>20.0°C           | TC                           | 34675            | 35257  | 36539  | 36766  | 38293  | 36944          | 36958  | 37060  | 37105  | 38342  | 38582        | 38602  | 38615  | 38616  | 38767  | 41738          | 41720  | 41760  | 41768  | 41802  |        |
|                       |                          | S/T                          | 0.87             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.81   | 0.91   | 0.93   | 1.00   | 0.57         | 0.69   | 0.79   | 0.81   | 0.93   | 0.39           | 0.49   | 0.58   | 0.60   | 0.71   |        |
|                       |                          | PI                           | 3.35             | 3.36   | 3.37   | 3.38   | 3.40   | 3.38           | 3.38   | 3.38   | 3.38   | 3.40   | 3.40         | 3.40   | 3.40   | 3.40   | 3.40   | 3.45           | 3.45   | 3.44   | 3.44   | 3.44   |        |
|                       | 77°F<br>25.0°C           | TC                           | 34040            | 34834  | 36169  | 36406  | 37998  | 36393          | 36411  | 36551  | 36610  | 38047  | 38082        | 38115  | 38134  | 38136  | 38333  | 41349          | 41329  | 41395  | 41405  | 41453  |        |
|                       |                          | S/T                          | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.69           | 0.82   | 0.93   | 0.95   | 1.00   | 0.57         | 0.70   | 0.80   | 0.82   | 0.94   | 0.39           | 0.49   | 0.59   | 0.60   | 0.72   |        |
|                       |                          | PI                           | 3.41             | 3.42   | 3.44   | 3.44   | 3.46   | 3.44           | 3.44   | 3.44   | 3.44   | 3.46   | 3.46         | 3.46   | 3.46   | 3.46   | 3.46   | 3.50           | 3.50   | 3.50   | 3.50   | 3.49   |        |
|                       | 82°F<br>27.8°C           | TC                           | 34081            | 35008  | 36386  | 36630  | 38273  | 36471          | 36491  | 36666  | 36739  | 38324  | 38204        | 38245  | 38265  | 38268  | 38509  | 41560          | 41567  | 41619  | 41631  | 41685  |        |
|                       |                          | S/T                          | 0.88             | 1.00   | 1.00   | 1.00   | 1.00   | 0.70           | 0.83   | 0.94   | 0.96   | 1.00   | 0.58         | 0.70   | 0.81   | 0.83   | 0.96   | 0.39           | 0.49   | 0.59   | 0.61   | 0.72   |        |
|                       |                          | PI                           | 3.50             | 3.51   | 3.52   | 3.52   | 3.54   | 3.52           | 3.52   | 3.52   | 3.52   | 3.54   | 3.54         | 3.54   | 3.54   | 3.54   | 3.54   | 3.58           | 3.58   | 3.58   | 3.57   | 3.57   |        |
|                       | 86°F<br>30.0°C           | TC                           | 34580            | 35671  | 37102  | 37355  | 39058  | 37028          | 37046  | 37267  | 37366  | 39110  | 38814        | 38855  | 38874  | 38876  | 39177  | 42274          | 42276  | 42338  | 42349  | 42399  |        |
|                       |                          | S/T                          | 0.90             | 1.00   | 1.00   | 1.00   | 1.00   | 0.71           | 0.84   | 0.96   | 0.98   | 1.00   | 0.58         | 0.71   | 0.82   | 0.84   | 0.97   | 0.39           | 0.50   | 0.60   | 0.61   | 0.73   |        |
|                       |                          | PI                           | 3.61             | 3.63   | 3.64   | 3.65   | 3.67   | 3.64           | 3.64   | 3.64   | 3.65   | 3.67   | 3.67         | 3.66   | 3.66   | 3.66   | 3.67   | 3.71           | 3.71   | 3.71   | 3.71   | 3.70   |        |
|                       | 95°F<br>35.0°C           | TC                           | 36178            | 36186  | 36385  | 36478  | 37982  | 38543          | 38539  | 38549  | 38550  | 38619  | 40244        | 40243  | 40242  | 40244  | 40262  | 43524          | 43509  | 43496  | 43516  | 43504  |        |
|                       |                          | S/T                          | 0.77             | 0.87   | 0.96   | 0.98   | 1.00   | 0.63           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |        |
|                       |                          | PI                           | 3.74             | 3.74   | 3.75   | 3.75   | 3.83   | 3.86           | 3.86   | 3.86   | 3.86   | 3.86   | 3.94         | 3.94   | 3.94   | 3.94   | 3.94   |                |        |        |        |        |        |

Table 11: COOLING PERFORMANCE 60K - NON-DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |                  |
|------------------|--------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                  | ID DB<br>°F (°C) | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2288             | -13°F<br>-25.0°C         | TC               | 39010            | 38996            | 38985            | 39212            | 40366            | 40728            | 40705            | 40687            | 40684            | 40656            | 41943            | 41921            | 41894            | 41889            | 41860            | 44245            | 44233            | 44200            | 44189            | 44123            |                  |
|                  |                          | S/T              | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 3.87             | 3.88             | 3.88             | 3.87             | 3.85             | 3.85             | 3.85             | 3.85             | 3.85             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.85             | 3.85             | 3.85             | 3.86             | 3.86             |                  |
|                  | -4°F<br>-20.0°C          | TC               | 42011            | 41996            | 41984            | 42228            | 43471            | 43860            | 43836            | 43817            | 43813            | 43783            | 45170            | 45146            | 45116            | 45111            | 45080            | 47648            | 47636            | 47600            | 47589            | 47518            |                  |
|                  |                          | S/T              | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 4.01             | 4.01             | 4.02             | 4.01             | 3.99             | 3.98             | 3.99             | 3.99             | 3.99             | 3.99             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             |                  |
|                  | 0°F<br>-17.8°C           | TC               | 43397            | 43378            | 43546            | 43878            | 45093            | 45289            | 45255            | 45229            | 45225            | 45217            | 46618            | 46591            | 46548            | 46542            | 46500            | 49130            | 49116            | 49118            | 49123            | 49160            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 4.05             | 4.05             | 4.05             | 4.04             | 4.04             | 4.03             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.07             | 4.07             | 4.07             | 4.07             | 4.08             |                  |
|                  | 5°F<br>-15.0°C           | TC               | 44674            | 44714            | 45317            | 45524            | 46916            | 46798            | 46808            | 46813            | 46814            | 47044            | 48330            | 48326            | 48339            | 48340            | 48346            | 51217            | 51202            | 51203            | 51207            | 51235            |                  |
|                  |                          | S/T              | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 4.08             | 4.08             | 4.08             | 4.08             | 4.09             | 4.09             | 4.09             | 4.09             | 4.09             | 4.10             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             | 4.20             | 4.19             | 4.19             | 4.20             | 4.20             |                  |
|                  | 14°F<br>-10.0°C          | TC               | 45295            | 45278            | 45465            | 45863            | 47286            | 47568            | 47541            | 47518            | 47515            | 47490            | 49212            | 49189            | 49151            | 49145            | 49103            | 52307            | 52291            | 52253            | 52241            | 52161            |                  |
|                  |                          | S/T              | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                  |                          | PI               | 3.73             | 3.73             | 3.73             | 3.73             | 3.72             | 3.71             | 3.72             | 3.72             | 3.72             | 3.72             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.72             | 3.72             | 3.72             | 3.72             | 3.72             |                  |
|                  | 17°F<br>-8.3°C           | TC               | 45558            | 45569            | 46128            | 46394            | 47887            | 47845            | 47849            | 47859            | 47861            | 48087            | 49371            | 49390            | 49422            | 49424            | 49437            | 52655            | 52638            | 52644            | 52654            | 52703            |                  |
|                  |                          | S/T              | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 3.58             | 3.58             | 3.58             | 3.58             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             |                  |
|                  | 23°F<br>-5.0°C           | TC               | 45408            | 45471            | 46211            | 46438            | 47956            | 47739            | 47751            | 47757            | 47758            | 48041            | 49422            | 49420            | 49435            | 49437            | 49446            | 52608            | 52592            | 52594            | 52601            | 52637            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                  |                          | PI               | 3.47             | 3.47             | 3.48             | 3.48             | 3.49             | 3.49             | 3.49             | 3.49             | 3.49             | 3.50             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.57             | 3.57             | 3.57             | 3.57             | 3.58             |                  |
|                  | 35°F<br>1.7°C            | TC               | 45737            | 45738            | 45826            | 45878            | 47057            | 47931            | 47925            | 47926            | 47928            | 47929            | 49471            | 49468            | 49463            | 49463            | 49468            | 52337            | 52324            | 52313            | 52321            | 52311            |                  |
|                  |                          | S/T              | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                  |                          | PI               | 3.07             | 3.07             | 3.08             | 3.08             | 3.18             | 3.25             | 3.25             | 3.25             | 3.25             | 3.26             | 3.40             | 3.40             | 3.40             | 3.40             | 3.40             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             |                  |
|                  | 41°F<br>5.0°C            | TC               | 45689            | 45690            | 45817            | 45879            | 47181            | 47871            | 47865            | 47867            | 47867            | 47909            | 49402            | 49397            | 49393            | 49394            | 49399            | 52247            | 52234            | 52223            | 52229            | 52221            |                  |
|                  |                          | S/T              | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 3.32             | 3.32             | 3.34             | 3.34             | 3.46             | 3.53             | 3.52             | 3.52             | 3.52             | 3.53             | 3.69             | 3.69             | 3.68             | 3.68             | 3.69             | 4.02             | 4.01             | 4.01             | 4.01             | 4.01             |                  |
|                  | 47°F<br>8.3°C            | TC               | 45638            | 45638            | 45814            | 45894            | 47306            | 47810            | 47803            | 47804            | 47804            | 47877            | 49332            | 49327            | 49323            | 49324            | 49327            | 52163            | 52150            | 52146            | 52145            | 52137            |                  |
|                  |                          | S/T              | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                  |                          | PI               | 3.56             | 3.56             | 3.58             | 3.59             | 3.74             | 3.80             | 3.80             | 3.80             | 3.80             | 3.81             | 3.98             | 3.97             | 3.97             | 3.97             | 3.98             | 4.34             | 4.33             | 4.33             | 4.33             | 4.33             |                  |
|                  | 50°F<br>10.0°C           | TC               | 44557            | 45285            | 46798            | 47066            | 48869            | 47175            | 47203            | 47356            | 47417            | 48926            | 49033            | 49096            | 49124            | 49127            | 49349            | 52565            | 52590            | 52718            | 52733            | 52803            |                  |
|                  |                          | S/T              | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                  |                          | PI               | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             |                  |
|                  | 59°F<br>15.0°C           | TC               | 43848            | 44904            | 46484            | 46764            | 48645            | 46524            | 46544            | 46775            | 46865            | 48701            | 48456            | 48507            | 48527            | 48529            | 48850            | 52156            | 52170            | 52272            | 52284            | 52335            |                  |
|                  |                          | S/T              | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                  |                          | PI               | 4.04             | 4.05             | 4.06             | 4.06             | 4.07             | 4.06             | 4.06             | 4.06             | 4.06             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.10             | 4.10             | 4.09             | 4.09             | 4.09             |                  |
|                  | 68°F<br>20.0°C           | TC               | 43182            | 44575            | 46215            | 46506            | 48462            | 45881            | 45895            | 46254            | 46556            | 48516            | 47877            | 47917            | 47930            | 47932            | 48477            | 51697            | 51714            | 51797            | 51807            | 51844            |                  |
|                  |                          | S/T              | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                  |                          | PI               | 4.08             | 4.10             | 4.12             | 4.12             | 4.15             | 4.12             | 4.12             | 4.12             | 4.12             | 4.15             | 4.14             | 4.14             | 4.14             | 4.14             | 4.15             | 4.20             | 4.20             | 4.20             | 4.19             | 4.19             |                  |
|                  | 77°F<br>25.0°C           | TC               | 42435            | 44060            | 45769            | 46073            | 48109            | 45194            | 45215            | 45735            | 46127            | 48166            | 47257            | 47311            | 47333            | 47388            | 48209            | 51182            | 51228            | 51343            | 51355            | 51411            |                  |
|                  |                          | S/T              | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 4.16             | 4.18             | 4.20             | 4.20             | 4.22             | 4.19             | 4.19             | 4.20             | 4.20             | 4.22             | 4.22             | 4.21             | 4.21             | 4.21             | 4.22             | 4.26             | 4.26             | 4.26             | 4.26             | 4.26             |                  |
|                  | 82°F<br>27.8°C           | TC               | 42486            | 44288            | 46053            | 46367            | 48475            | 45291            | 45364            | 46109            | 46423            | 48530            | 47410            | 47473            | 47496            | 47571            | 48574            | 51424            | 51490            | 51618            | 51633            | 51694            |                  |
|                  |                          | S/T              | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                  |                          | PI               | 4.26             | 4.28             | 4.30             | 4.30             | 4.32             | 4.29             | 4.29             | 4.30             | 4.30             | 4.32             | 4.31             | 4.31             | 4.31             | 4.31             | 4.32             | 4.36             | 4.36             | 4.35             | 4.35             | 4.35             |                  |
|                  | 86°F<br>30.0°C           | TC               | 43083            | 45078            | 46907            | 47230            | 49432            | 45928            | 46023            | 46963            | 47287            | 49471            | 48119            | 48176            | 48251            | 48295            | 49517            | 52255            | 52330            | 52453            | 52466            | 52521            |                  |
|                  |                          | S/T              | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                  |                          | PI               | 4.40             | 4.42             | 4.45             | 4.45             | 4.48             | 4.44             | 4.44             | 4.45             | 4.45             | 4.48             | 4.46             | 4.46             | 4.46             | 4.46             | 4.48             | 4.52             | 4.52             | 4.51             | 4.51             | 4.51             |                  |
|                  | 95°F<br>35.0°C           | TC               | 44977            | 45057            | 46024            | 46295            | 48110            | 47853            | 47865            | 47881            | 47884            | 48208            | 49919            | 49925            | 49950            | 49954            | 49976            | 53889            | 53870            | 53876            | 53873            | 53913            |                  |
|                  |                          | S/T              | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                  |                          | PI               | 4.55             | 4.56             | 4.60             | 4.62             | 4.71             | 4.70             | 4.70             | 4.70             | 4.70             | 4.71             | 4.80             | 4.80             | 4.80             | 4.80             | 4.80             | 5.00             | 5.00             | 5.00             | 5.00             | </               |                  |

Table 11: COOLING PERFORMANCE 60K - NON-DUCTED (Continued)

| AIRFLOW<br>W<br>(CFM) | OUTDO<br>OR<br>DB °F<br>(°C) | ID WB<br>°F (°C)<br>ID DB<br>°F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|-----------------------|------------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                       |                              |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                       |                              |                                      | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              |
| 2925                  | -13°F<br>-25.0°C             | TC                                   | 48499            | 48477            | 49169            | 49372            | 50731            | 50602            | 50560            | 50528            | 50524            | 50482            | 52115            | 52049            | 52000            | 51993            | 51943            | 54971            | 54956            | 54843            | 54823            | 54707            |
|                       |                              | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                       |                              | PI                                   | 4.75             | 4.75             | 4.74             | 4.74             | 4.73             | 4.72             | 4.73             | 4.73             | 4.73             | 4.73             | 4.72             | 4.72             | 4.72             | 4.72             | 4.72             | 4.75             | 4.75             | 4.75             | 4.75             | 4.75             |
|                       | -4°F<br>-20.0°C              | TC                                   | 52230            | 52206            | 52951            | 53170            | 54634            | 54494            | 54449            | 54415            | 54410            | 54365            | 56124            | 56053            | 56000            | 55992            | 55939            | 59200            | 59184            | 59062            | 59040            | 58915            |
|                       |                              | S/T                                  | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                       |                              | PI                                   | 4.92             | 4.92             | 4.91             | 4.91             | 4.90             | 4.89             | 4.89             | 4.90             | 4.90             | 4.90             | 4.89             | 4.89             | 4.89             | 4.89             | 4.89             | 4.92             | 4.92             | 4.92             | 4.92             | 4.92             |
|                       | 0°F<br>-17.8°C               | TC                                   | 53963            | 53931            | 54932            | 55161            | 56676            | 56278            | 56215            | 56172            | 56165            | 56730            | 57932            | 57850            | 57778            | 57769            | 57742            | 61047            | 61033            | 61028            | 61036            | 61076            |
|                       |                              | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                       |                              | PI                                   | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.96             | 4.97             | 4.97             | 4.97             | 5.02             | 5.02             | 5.02             | 5.02             | 5.02             |
|                       | 5°F<br>-15.0°C               | TC                                   | 55510            | 55702            | 56975            | 57238            | 59001            | 58114            | 58128            | 58132            | 58192            | 59060            | 59972            | 59988            | 60000            | 60002            | 60081            | 63490            | 63471            | 63504            | 63511            | 63539            |
|                       |                              | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                       |                              | PI                                   | 5.00             | 5.00             | 5.01             | 5.01             | 5.04             | 5.02             | 5.02             | 5.03             | 5.03             | 5.04             | 5.06             | 5.06             | 5.06             | 5.06             | 5.06             | 5.17             | 5.17             | 5.17             | 5.17             | 5.17             |
|                       | 14°F<br>-10.0°C              | TC                                   | 56325            | 56297            | 57446            | 57715            | 59505            | 59121            | 59069            | 59029            | 59023            | 59575            | 61147            | 61070            | 61008            | 60999            | 60937            | 65019            | 64999            | 64874            | 64851            | 64713            |
|                       |                              | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                       |                              | PI                                   | 4.58             | 4.58             | 4.57             | 4.57             | 4.56             | 4.56             | 4.56             | 4.56             | 4.56             | 4.56             | 4.55             | 4.56             | 4.56             | 4.56             | 4.56             | 4.58             | 4.58             | 4.58             | 4.58             | 4.58             |
|                       | 17°F<br>-8.3°C               | TC                                   | 56463            | 56648            | 57957            | 58239            | 60131            | 59274            | 59299            | 59309            | 59359            | 60196            | 61297            | 61320            | 61344            | 61347            | 61423            | 65191            | 65173            | 65163            | 65175            | 65229            |
|                       |                              | S/T                                  | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                       |                              | PI                                   | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.38             | 4.38             | 4.38             | 4.38             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.43             | 4.43             | 4.43             | 4.43             | 4.43             |
|                       | 23°F<br>-5.0°C               | TC                                   | 56423            | 56665            | 58131            | 58418            | 60343            | 59280            | 59298            | 59304            | 59382            | 60408            | 61324            | 61345            | 61361            | 61363            | 61462            | 65206            | 65186            | 65232            | 65241            | 65279            |
|                       |                              | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                       |                              | PI                                   | 4.26             | 4.26             | 4.28             | 4.28             | 4.30             | 4.29             | 4.29             | 4.29             | 4.29             | 4.30             | 4.32             | 4.32             | 4.32             | 4.32             | 4.32             | 4.40             | 4.40             | 4.40             | 4.40             | 4.40             |
|                       | 35°F<br>1.7°C                | TC                                   | 56874            | 56876            | 57210            | 57370            | 59220            | 59533            | 59530            | 59535            | 59536            | 59694            | 61396            | 61392            | 61395            | 61397            | 61403            | 64853            | 64838            | 64835            | 64832            | 64837            |
|                       |                              | S/T                                  | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                       |                              | PI                                   | 3.77             | 3.77             | 3.80             | 3.81             | 3.97             | 4.00             | 4.00             | 4.00             | 4.00             | 4.01             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             |
|                       | 41°F<br>5.0°C                | TC                                   | 56812            | 56813            | 57265            | 57663            | 59368            | 59454            | 59453            | 59456            | 59456            | 59665            | 61309            | 61305            | 61309            | 61310            | 61313            | 64749            | 64733            | 64729            | 64726            | 64733            |
|                       |                              | S/T                                  | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                       |                              | PI                                   | 4.07             | 4.07             | 4.12             | 4.15             | 4.32             | 4.33             | 4.33             | 4.33             | 4.33             | 4.35             | 4.53             | 4.53             | 4.53             | 4.53             | 4.53             | 4.93             | 4.93             | 4.93             | 4.93             | 4.93             |
|                       | 47°F<br>8.3°C                | TC                                   | 56748            | 56786            | 57547            | 57804            | 59514            | 59379            | 59377            | 59379            | 59378            | 59653            | 61223            | 61218            | 61222            | 61221            | 61221            | 64651            | 64634            | 64629            | 64626            | 64633            |
|                       |                              | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                       |                              | PI                                   | 4.38             | 4.39             | 4.47             | 4.49             | 4.68             | 4.67             | 4.67             | 4.67             | 4.67             | 4.70             | 4.89             | 4.89             | 4.89             | 4.89             | 4.89             | 5.33             | 5.33             | 5.32             | 5.32             | 5.33             |
|                       | 50°F<br>10.0°C               | TC                                   | 56448            | 56975            | 58897            | 59239            | 61535            | 58579            | 58611            | 59016            | 59202            | 61594            | 60864            | 60943            | 60975            | 60979            | 61565            | 65059            | 65230            | 65398            | 65418            | 65500            |
|                       |                              | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                       |                              | PI                                   | 4.92             | 4.92             | 4.92             | 4.92             | 4.91             | 4.92             | 4.92             | 4.92             | 4.92             | 4.91             | 4.92             | 4.92             | 4.92             | 4.92             | 4.91             | 4.91             | 4.91             | 4.91             | 4.91             | 4.91             |
|                       | 59°F<br>15.0°C               | TC                                   | 54600            | 56515            | 58521            | 58877            | 61273            | 57769            | 57848            | 58504            | 58940            | 61334            | 60152            | 60213            | 60234            | 60322            | 61384            | 64592            | 64721            | 64850            | 64864            | 64918            |
|                       |                              | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                       |                              | PI                                   | 4.97             | 4.98             | 4.99             | 4.99             | 5.01             | 4.99             | 4.99             | 4.99             | 5.00             | 5.01             | 5.01             | 5.00             | 5.00             | 5.00             | 5.01             | 5.04             | 5.04             | 5.03             | 5.03             | 5.03             |
|                       | 68°F<br>20.0°C               | TC                                   | 53731            | 56024            | 58102            | 58471            | 60952            | 56883            | 57011            | 58165            | 58535            | 61013            | 59342            | 59386            | 59493            | 59545            | 61063            | 63941            | 64059            | 64160            | 64170            | 64204            |
|                       |                              | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                       |                              | PI                                   | 5.02             | 5.05             | 5.07             | 5.08             | 5.11             | 5.06             | 5.06             | 5.07             | 5.08             | 5.11             | 5.09             | 5.09             | 5.09             | 5.09             | 5.11             | 5.17             | 5.16             | 5.16             | 5.16             | 5.15             |
|                       | 77°F<br>25.0°C               | TC                                   | 52824            | 55367            | 57535            | 57918            | 60506            | 56000            | 56178            | 57597            | 57982            | 60567            | 58537            | 58602            | 58752            | 58818            | 60617            | 63222            | 63414            | 63560            | 63576            | 63635            |
|                       |                              | S/T                                  | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                       |                              | PI                                   | 5.12             | 5.14             | 5.17             | 5.17             | 5.20             | 5.15             | 5.15             | 5.17             | 5.17             | 5.20             | 5.18             | 5.18             | 5.18             | 5.18             | 5.20             | 5.24             | 5.24             | 5.23             | 5.23             | 5.23             |
|                       | 82°F<br>27.8°C               | TC                                   | 52929            | 55631            | 57875            | 58267            | 60936            | 56089            | 56305            | 57926            | 58333            | 61000            | 58698            | 58772            | 58954            | 59027            | 61053            | 63465            | 63703            | 63869            | 63886            | 63956            |
|                       |                              | S/T                                  | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                       |                              | PI                                   | 5.24             | 5.27             | 5.29             | 5.29             | 5.32             | 5.27             | 5.27             | 5.29             | 5.29             | 5.32             | 5.30             | 5.30             | 5.30             | 5.30             | 5.32             | 5.36             | 5.36             | 5.35             | 5.35             | 5.35             |
|                       | 86°F<br>30.0°C               | TC                                   | 53962            | 56656            | 58973            | 59384            | 62150            | 56908            | 57169            | 59038            | 59452            | 62214            | 59604            | 59673            | 59892            | 59978            | 62268            | 64528            | 64778            | 64931            | 64947            | 65008            |
|                       |                              | S/T                                  | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                       |                              | PI                                   | 5.41             | 5.45             | 5.47             | 5.48             | 5.51             | 5.45             | 5.45             | 5.47             | 5.48             | 5.51             | 5.49             | 5.48             | 5.48             | 5.49             | 5.51             | 5.56             | 5.55             | 5.54             | 5.54             | 5.54             |
|                       | 95°F<br>35.0°C               | TC                                   | 55891            | 56192            | 58008            | 58352            | 60658            | 59400            | 59434            | 59453            | 59523            | 60735            | 61949            | 61962            | 62000            | 62006            | 62109            | 66753            | 66727            | 66741            | 66760            | 66850            |
|                       |                              | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.               |                  |                  |                  |                  |                  |                  |                  |

## **COOLING PERFORMANCE - DUCTED**

### **COOLING PERFORMANCE 18K - DUCTED**

Table 12: COOLING PERFORMANCE 18K - DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1025             | -22°F<br>-30.0°C         | TC                                         | 13065            | 13064            | 13062            | 13062            | 13059            | 13674            | 13670            | 13668            | 13667            | 13665            | 14105            | 14101            | 14098            | 14097            | 14094            | 14914            | 14910            | 14906            | 14906            | 14901            |
|                  |                          | S/T                                        | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.74             | 0.38             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                                         | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             |
|                  | -13°F<br>-25.0°C         | TC                                         | 14154            | 14152            | 14150            | 14150            | 14147            | 14813            | 14809            | 14807            | 14806            | 14804            | 15280            | 15276            | 15273            | 15272            | 15269            | 16156            | 16152            | 16148            | 16148            | 16142            |
|                  |                          | S/T                                        | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                                         | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.09             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             |
|                  | -4°F<br>-20.0°C          | TC                                         | 15243            | 15241            | 15239            | 15239            | 15236            | 15953            | 15948            | 15946            | 15945            | 15942            | 16455            | 16451            | 16448            | 16447            | 16443            | 17399            | 17395            | 17391            | 17390            | 17384            |
|                  |                          | S/T                                        | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                                         | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             |
|                  | 0°F<br>-17.8°C           | TC                                         | 15739            | 15736            | 15733            | 15733            | 15728            | 16464            | 16461            | 16457            | 16457            | 16452            | 16978            | 16974            | 16970            | 16969            | 16964            | 17936            | 17931            | 17928            | 17927            | 17920            |
|                  |                          | S/T                                        | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                                         | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             |
|                  | 5°F<br>-15.0°C           | TC                                         | 16233            | 16233            | 16233            | 16233            | 16475            | 17043            | 17040            | 17040            | 17040            | 17041            | 17626            | 17625            | 17622            | 17622            | 17623            | 18743            | 18738            | 18734            | 18733            | 18733            |
|                  |                          | S/T                                        | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.17             | 1.17             | 1.17             | 1.17             | 1.17             | 1.16             | 1.16             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.16             | 1.16             | 1.17             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             |
|                  | 14°F<br>-10.0°C          | TC                                         | 16171            | 16169            | 16167            | 16166            | 16245            | 17020            | 17016            | 17013            | 17012            | 17009            | 17626            | 17622            | 17618            | 17617            | 17613            | 18778            | 18773            | 18768            | 18767            | 18761            |
|                  |                          | S/T                                        | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                  |                          | PI                                         | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             |
|                  | 17°F<br>-8.3°C           | TC                                         | 16163            | 16160            | 16157            | 16157            | 16390            | 17011            | 17007            | 17003            | 17002            | 17003            | 17619            | 17619            | 17616            | 17616            | 17618            | 18809            | 18804            | 18799            | 18798            | 18799            |
|                  |                          | S/T                                        | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.22             | 1.22             | 1.22             | 1.22             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             |
|                  | 23°F<br>-5.0°C           | TC                                         | 16113            | 16114            | 16114            | 16124            | 16419            | 16981            | 16977            | 16977            | 16977            | 16979            | 17605            | 17603            | 17601            | 17600            | 17602            | 18805            | 18799            | 18795            | 18794            | 18794            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             |
|                  | 35°F<br>1.7°C            | TC                                         | 16147            | 16145            | 16144            | 16144            | 16166            | 16983            | 16981            | 16979            | 16979            | 16978            | 17574            | 17571            | 17570            | 17570            | 17567            | 18681            | 18677            | 18673            | 18673            | 18672            |
|                  |                          | S/T                                        | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                  |                          | PI                                         | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             |
|                  | 41°F<br>5.0°C            | TC                                         | 16034            | 16032            | 16032            | 16031            | 16069            | 16858            | 16857            | 16854            | 16854            | 16853            | 17441            | 17437            | 17436            | 17436            | 17433            | 18532            | 18528            | 18524            | 18524            | 18522            |
|                  |                          | S/T                                        | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                                         | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.10             | 1.10             | 1.10             | 1.10             | 1.10             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             |
|                  | 47°F<br>8.3°C            | TC                                         | 15919            | 15917            | 15916            | 15916            | 15971            | 16731            | 16730            | 16727            | 16727            | 16726            | 17307            | 17303            | 17302            | 17301            | 17299            | 18382            | 18377            | 18374            | 18373            | 18372            |
|                  |                          | S/T                                        | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                                         | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.10             | 1.10             | 1.10             | 1.10             | 1.10             | 1.21             | 1.21             | 1.20             | 1.20             | 1.20             |
|                  | 50°F<br>10.0°C           | TC                                         | 15324            | 15326            | 15468            | 15593            | 16172            | 16251            | 16254            | 16259            | 16260            | 16320            | 16923            | 16925            | 16932            | 16934            | 16941            | 18227            | 18220            | 18223            | 18221            | 18237            |
|                  |                          | S/T                                        | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                                         | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             |
|                  | 59°F<br>15.0°C           | TC                                         | 14252            | 14274            | 14555            | 14640            | 15212            | 15159            | 15162            | 15165            | 15165            | 15258            | 15822            | 15818            | 15824            | 15825            | 15830            | 17094            | 17087            | 17088            | 17087            | 17100            |
|                  |                          | S/T                                        | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                         | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             |
|                  | 68°F<br>20.0°C           | TC                                         | 13198            | 13241            | 13615            | 13699            | 14259            | 14074            | 14077            | 14079            | 14079            | 14248            | 14714            | 14711            | 14716            | 14717            | 14720            | 15944            | 15937            | 15938            | 15937            | 15950            |
|                  |                          | S/T                                        | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                         | 1.12             | 1.12             | 1.13             | 1.13             | 1.14             | 1.13             | 1.13             | 1.13             | 1.13             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.16             | 1.16             | 1.16             | 1.16             | 1.16             |
|                  | 77°F<br>25.0°C           | TC                                         | 12132            | 12193            | 12611            | 12693            | 13240            | 12981            | 12986            | 12989            | 13001            | 13259            | 13602            | 13601            | 13608            | 13609            | 13626            | 14796            | 14790            | 14791            | 14792            | 14809            |
|                  |                          | S/T                                        | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                                         | 1.14             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.16             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.17             | 1.17             | 1.17             | 1.17             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 12: COOLING PERFORMANCE 18K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1025             | 82°F<br>27.8°C           | TC                                         | 11932            | 12009            | 12470            | 12553            | 13107            | 12789            | 12795            | 12806            | 12817            | 13126            | 13416            | 13417            | 13424            | 13425            | 13448            | 14623            | 14616            | 14619            | 14620            | 14640            |
|                  |                          | S/T                                        | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                                         | 1.17             | 1.17             | 1.18             | 1.18             | 1.19             | 1.18             | 1.18             | 1.18             | 1.18             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             |
|                  | 86°F<br>30.0°C           | TC                                         | 12262            | 12369            | 12885            | 12972            | 13555            | 13159            | 13164            | 13182            | 13195            | 13575            | 13813            | 13815            | 13822            | 13823            | 13854            | 15074            | 15067            | 15069            | 15073            | 15091            |
|                  |                          | S/T                                        | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.23             | 1.23             | 1.23             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             |
|                  | 95°F<br>35.0°C           | TC                                         | 13200            | 13199            | 13200            | 13215            | 13554            | 14084            | 14080            | 14079            | 14079            | 14082            | 14721            | 14720            | 14716            | 14716            | 14717            | 15953            | 15947            | 15943            | 15942            | 15942            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.30             | 1.30             | 1.30             | 1.30             | 1.32             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                  | 104°F<br>40.0°C          | TC                                         | 11354            | 11355            | 11375            | 11391            | 11771            | 12113            | 12110            | 12110            | 12110            | 12112            | 12660            | 12659            | 12657            | 12657            | 12658            | 13717            | 13712            | 13709            | 13708            | 13708            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.61             | 0.71             | 0.78             | 0.80             | 0.89             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.16             | 1.16             | 1.16             | 1.16             | 1.18             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
|                  | 110°F<br>43.0°C          | TC                                         | 10181            | 10196            | 10425            | 10492            | 10934            | 10902            | 10901            | 10903            | 10903            | 10965            | 11421            | 11420            | 11421            | 11421            | 11424            | 12422            | 12417            | 12417            | 12417            | 12416            |
|                  |                          | S/T                                        | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                         | 1.08             | 1.08             | 1.09             | 1.09             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.11             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.16             | 1.16             | 1.16             | 1.16             | 1.16             |
|                  | 115°F<br>46.0°C          | TC                                         | 8160             | 8192             | 8471             | 8527             | 8900             | 8753             | 8754             | 8755             | 8756             | 8913             | 9181             | 9181             | 9183             | 9184             | 9184             | 10006            | 10002            | 10001            | 10000            | 10005            |
|                  |                          | S/T                                        | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.89             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                         | 0.97             | 0.98             | 0.99             | 0.99             | 1.00             | 1.00             | 1.00             | 0.99             | 0.99             | 1.00             | 1.01             | 1.01             | 1.01             | 1.01             | 1.01             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             |
|                  | 122°F<br>50.0°C          | TC                                         | 5453             | 5688             | 5938             | 5981             | 6278             | 5881             | 5881             | 5932             | 5990             | 6286             | 6198             | 6199             | 6200             | 6199             | 6292             | 6811             | 6807             | 6812             | 6812             | 6814             |
|                  |                          | S/T                                        | 0.93             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.39             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                                         | 0.84             | 0.84             | 0.85             | 0.85             | 0.86             | 0.85             | 0.85             | 0.85             | 0.85             | 0.86             | 0.86             | 0.86             | 0.86             | 0.86             | 0.86             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             |
| 1332             | -22°F<br>-30.0°C         | TC                                         | 15412            | 15409            | 15405            | 15405            | 15721            | 16106            | 16101            | 16097            | 16096            | 16091            | 16597            | 16592            | 16586            | 16585            | 16578            | 17520            | 17516            | 17509            | 17508            | 17497            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.93             | 0.99             | 0.61             | 0.70             | 0.77             | 0.79             | 0.88             | 0.52             | 0.61             | 0.68             | 0.70             | 0.78             | 0.38             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             |
|                  | -13°F<br>-25.0°C         | TC                                         | 16696            | 16693            | 16689            | 16689            | 17031            | 17448            | 17443            | 17438            | 17437            | 17432            | 17981            | 17975            | 17969            | 17967            | 17959            | 18980            | 18975            | 18968            | 18967            | 18955            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.26             | 1.26             | 1.26             | 1.26             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             |
|                  | -4°F<br>-20.0°C          | TC                                         | 17980            | 17977            | 17973            | 17973            | 18341            | 18790            | 18785            | 18780            | 18779            | 18772            | 19364            | 19357            | 19351            | 19349            | 19341            | 20440            | 20435            | 20427            | 20426            | 20413            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             |
|                  | 0°F<br>-17.8°C           | TC                                         | 18568            | 18563            | 18559            | 18558            | 19021            | 19396            | 19389            | 19382            | 19381            | 19373            | 19982            | 19974            | 19965            | 19963            | 19951            | 21070            | 21065            | 21063            | 21062            | 21064            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |
|                  | 5°F<br>-15.0°C           | TC                                         | 19133            | 19135            | 19194            | 19222            | 19784            | 20065            | 20064            | 20067            | 20067            | 20091            | 20732            | 20732            | 20733            | 20734            | 20738            | 22007            | 22001            | 22001            | 22000            | 22002            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                  | 14°F<br>-10.0°C          | TC                                         | 19071            | 19067            | 19063            | 19062            | 19604            | 20045            | 20039            | 20034            | 20032            | 20026            | 20742            | 20735            | 20727            | 20726            | 20716            | 22065            | 22059            | 22050            | 22049            | 22035            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
|                  | 17°F<br>-8.3°C           | TC                                         | 19049            | 19043            | 19092            | 19119            | 19692            | 20021            | 20014            | 20019            | 20020            | 20041            | 20723            | 20722            | 20726            | 20727            | 20733            | 22082            | 22076            | 22078            | 22076            | 22081            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 1.39             | 1.39             | 1.39             | 1.39             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                  | 23°F<br>-5.0°C           | TC                                         | 18993            | 18995            | 19073            | 19106            | 19734            | 19990            | 19990            | 19993            | 19993            | 20026            | 20706            | 20705            | 20707            | 20708            | 20713            | 22078            | 22071            | 22072            | 22071            | 22074            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |

Table 12: COOLING PERFORMANCE 18K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1332             | 35°F<br>1.7°C            | TC                                         | 19063            | 19062            | 19062            | 19062            | 19308            | 20011            | 20008            | 20006            | 20006            | 20007            | 20676            | 20675            | 20671            | 20671            | 20670            | 21919            | 21914            | 21910            | 21909            | 21908            |
|                  |                          | S/T                                        | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                                         | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                  | 41°F<br>5.0°C            | TC                                         | 18880            | 18926            | 18926            | 18932            | 19243            | 19862            | 19858            | 19856            | 19857            | 19857            | 20519            | 20517            | 20514            | 20513            | 20513            | 21744            | 21739            | 21735            | 21734            | 21732            |
|                  |                          | S/T                                        | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.17             | 1.18             | 1.18             | 1.18             | 1.20             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             |
|                  | 47°F<br>8.3°C            | TC                                         | 18789            | 18788            | 18788            | 18807            | 19177            | 19711            | 19708            | 19706            | 19706            | 19707            | 20361            | 20359            | 20356            | 20355            | 20355            | 21571            | 21565            | 21561            | 21561            | 21559            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                                         | 1.13             | 1.13             | 1.13             | 1.13             | 1.16             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                  | 50°F<br>10.0°C           | TC                                         | 18051            | 18127            | 18639            | 18745            | 19453            | 19122            | 19134            | 19139            | 19159            | 19478            | 19898            | 19910            | 19921            | 19923            | 19952            | 21380            | 21372            | 21397            | 21403            | 21432            |
|                  |                          | S/T                                        | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                                         | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
|                  | 59°F<br>15.0°C           | TC                                         | 16789            | 16909            | 17507            | 17611            | 18311            | 17840            | 17848            | 17875            | 17892            | 18335            | 18599            | 18609            | 18618            | 18619            | 18664            | 20059            | 20051            | 20071            | 20075            | 20096            |
|                  |                          | S/T                                        | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             |
|                  | 68°F<br>20.0°C           | TC                                         | 15547            | 15808            | 16383            | 16485            | 17170            | 16565            | 16571            | 16617            | 16637            | 17192            | 17299            | 17308            | 17314            | 17315            | 17382            | 18714            | 18706            | 18724            | 18728            | 18743            |
|                  |                          | S/T                                        | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                                         | 1.28             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             |
|                  | 77°F<br>25.0°C           | TC                                         | 14291            | 14625            | 15185            | 15285            | 15953            | 15280            | 15287            | 15346            | 15371            | 15974            | 15989            | 16002            | 16010            | 16011            | 16094            | 17360            | 17352            | 17379            | 17384            | 17404            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                                         | 1.30             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             |
|                  | 82°F<br>27.8°C           | TC                                         | 14067            | 14449            | 15018            | 15119            | 15797            | 15053            | 15062            | 15134            | 15164            | 15818            | 15769            | 15786            | 15794            | 15795            | 15895            | 17154            | 17157            | 17178            | 17183            | 17205            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                                         | 1.34             | 1.35             | 1.35             | 1.35             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
|                  | 86°F<br>30.0°C           | TC                                         | 14466            | 14922            | 15521            | 15626            | 16339            | 15490            | 15497            | 15590            | 15631            | 16361            | 16237            | 16254            | 16262            | 16263            | 16389            | 17684            | 17685            | 17711            | 17716            | 17736            |
|                  |                          | S/T                                        | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                                         | 1.40             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             |
|                  | 95°F<br>35.0°C           | TC                                         | 15566            | 15569            | 15654            | 15695            | 16342            | 16583            | 16581            | 16585            | 16586            | 16616            | 17315            | 17314            | 17314            | 17315            | 17323            | 18726            | 18720            | 18714            | 18723            | 18718            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 1.49             | 1.49             | 1.49             | 1.49             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
|                  | 104°F<br>40.0°C          | TC                                         | 13387            | 13389            | 13527            | 13651            | 14189            | 14260            | 14259            | 14263            | 14264            | 14315            | 14890            | 14890            | 14891            | 14892            | 14898            | 16100            | 16094            | 16089            | 16094            | 16093            |
|                  |                          | S/T                                        | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                                         | 1.32             | 1.32             | 1.33             | 1.33             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             |
|                  | 110°F<br>43.0°C          | TC                                         | 12001            | 12092            | 12559            | 12639            | 13179            | 12830            | 12835            | 12846            | 12857            | 13197            | 13432            | 13431            | 13437            | 13437            | 13461            | 14579            | 14575            | 14575            | 14576            | 14587            |
|                  |                          | S/T                                        | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.24             | 1.24             | 1.26             | 1.26             | 1.28             | 1.27             | 1.27             | 1.27             | 1.27             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |
|                  | 115°F<br>46.0°C          | TC                                         | 9618             | 9823             | 10207            | 10274            | 10728            | 10303            | 10307            | 10334            | 10349            | 10743            | 10798            | 10801            | 10804            | 10804            | 10845            | 11746            | 11741            | 11745            | 11747            | 11756            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                                         | 1.11             | 1.12             | 1.13             | 1.14             | 1.15             | 1.14             | 1.14             | 1.14             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             | 1.16             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             |
|                  | 122°F<br>50.0°C          | TC                                         | 6473             | 6839             | 7141             | 7195             | 7554             | 6911             | 6929             | 7150             | 7204             | 7563             | 7281             | 7282             | 7294             | 7302             | 7570             | 7985             | 7987             | 7994             | 7994             | 7994             |
|                  |                          | S/T                                        | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                                         | 0.96             | 0.97             | 0.97             | 0.98             | 0.98             | 0.97             | 0.97             | 0.97             | 0.98             | 0.98             | 0.98             | 0.98             | 0.98             | 0.98             | 0.98             | 1.00             | 1.00             | 1.00             | 1.00             | 0.99             |
|                  | -22°F<br>-30.0°C         | TC                                         | 18171            | 18165            | 18160            | 18265            | 18803            | 18971            | 18961            | 18952            | 18951            | 18937            | 19537            | 19527            | 19514            | 19512            | 19498            | 20609            | 20604            | 20589            | 20584            | 20553            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |

Table 12: COOLING PERFORMANCE 18K - DUCTED (Continued)

| AIRFL<br>OW<br>(CFM) | OUTD<br>OR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|----------------------|-----------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                      |                             |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                      |                             | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1952                 | -13°F<br>-25.0°C            | TC                  | 19685            | 19678            | 19673            | 19787            | 20370            | 20552            | 20541            | 20531            | 20530            | 20516            | 21165            | 21154            | 21140            | 21138            | 21123            | 22327            | 22321            | 22304            | 22299            | 22266            |
|                      |                             | S/T                 | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                      |                             | PI                  | 1.45             | 1.45             | 1.45             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             |                  |
|                      | -4°F<br>-20.0°C             | TC                  | 21199            | 21192            | 21186            | 21309            | 21937            | 22133            | 22121            | 22111            | 22109            | 22094            | 22793            | 22782            | 22766            | 22764            | 22748            | 24044            | 24038            | 24020            | 24014            | 23978            |
|                      |                             | S/T                 | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                      |                             | PI                  | 1.50             | 1.50             | 1.50             | 1.50             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             |
|                      | 0°F<br>-17.8°C              | TC                  | 21899            | 21890            | 21974            | 22142            | 22755            | 22854            | 22837            | 22823            | 22821            | 22817            | 23524            | 23511            | 23489            | 23486            | 23465            | 24792            | 24785            | 24786            | 24789            | 24807            |
|                      |                             | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                      |                             | PI                  | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                      | 5°F<br>-15.0°C              | TC                  | 22543            | 22564            | 22868            | 22973            | 23675            | 23615            | 23620            | 23623            | 23623            | 23739            | 24388            | 24386            | 24393            | 24393            | 24396            | 25845            | 25838            | 25838            | 25840            | 25854            |
|                      |                             | S/T                 | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                      |                             | PI                  | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             |
|                      | 14°F<br>-10.0°C             | TC                  | 22473            | 22464            | 22558            | 22755            | 23461            | 23601            | 23587            | 23576            | 23574            | 23562            | 24416            | 24405            | 24386            | 24383            | 24362            | 25952            | 25944            | 25925            | 25919            | 25880            |
|                      |                             | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                      |                             | PI                  | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             |
|                      | 17°F<br>-8.3°C              | TC                  | 22478            | 22483            | 22759            | 22890            | 23627            | 23606            | 23608            | 23613            | 23614            | 23725            | 24359            | 24368            | 24384            | 24385            | 24391            | 25979            | 25971            | 25974            | 25979            | 26003            |
|                      |                             | S/T                 | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                      |                             | PI                  | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                      | 23°F<br>-5.0°C              | TC                  | 22378            | 22409            | 22774            | 22885            | 23633            | 23526            | 23532            | 23536            | 23536            | 23675            | 24356            | 24355            | 24363            | 24364            | 24368            | 25926            | 25918            | 25919            | 25923            | 25940            |
|                      |                             | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                      |                             | PI                  | 1.56             | 1.56             | 1.57             | 1.57             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                      | 35°F<br>1.7°C               | TC                  | 22488            | 22489            | 22532            | 22557            | 23137            | 23567            | 23564            | 23565            | 23565            | 23566            | 24324            | 24323            | 24320            | 24320            | 24323            | 25733            | 25727            | 25722            | 25725            | 25721            |
|                      |                             | S/T                 | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                      |                             | PI                  | 1.41             | 1.41             | 1.42             | 1.42             | 1.46             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                      | 41°F<br>5.0°C               | TC                  | 22325            | 22325            | 22387            | 22417            | 23054            | 23391            | 23388            | 23389            | 23389            | 23410            | 24139            | 24136            | 24135            | 24135            | 24138            | 25529            | 25523            | 25517            | 25520            | 25517            |
|                      |                             | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                      |                             | PI                  | 1.36             | 1.36             | 1.37             | 1.37             | 1.42             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                      | 47°F<br>8.3°C               | TC                  | 22160            | 22160            | 22245            | 22284            | 22969            | 23214            | 23211            | 23211            | 23212            | 23247            | 23953            | 23951            | 23949            | 23949            | 23951            | 25328            | 25322            | 25320            | 25319            | 25315            |
|                      |                             | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                      |                             | PI                  | 1.31             | 1.31             | 1.31             | 1.32             | 1.37             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             |
|                      | 50°F<br>10.0°C              | TC                  | 21259            | 21606            | 22328            | 22456            | 23316            | 22508            | 22521            | 22594            | 22623            | 23343            | 23394            | 23424            | 23438            | 23439            | 23545            | 25079            | 25092            | 25152            | 25159            | 25193            |
|                      |                             | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                      |                             | PI                  | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             |
|                      | 59°F<br>15.0°C              | TC                  | 19792            | 20268            | 20982            | 21108            | 21957            | 21000            | 21009            | 21113            | 21154            | 21983            | 21872            | 21895            | 21904            | 21905            | 22050            | 23542            | 23548            | 23594            | 23600            | 23623            |
|                      |                             | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                      |                             | PI                  | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             |
|                      | 68°F<br>20.0°C              | TC                  | 18352            | 18944            | 19641            | 19765            | 20596            | 19499            | 19505            | 19658            | 19786            | 20619            | 20348            | 20364            | 20370            | 20371            | 20603            | 21971            | 21978            | 22014            | 22018            | 22033            |
|                      |                             | S/T                 | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                      |                             | PI                  | 1.48             | 1.49             | 1.50             | 1.50             | 1.51             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             |
|                      | 77°F<br>25.0°C              | TC                  | 16887            | 17534            | 18214            | 18335            | 19145            | 17985            | 17994            | 18200            | 18356            | 19168            | 18806            | 18828            | 18836            | 18858            | 19185            | 20368            | 20386            | 20432            | 20437            | 20459            |
|                      |                             | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                      |                             | PI                  | 1.51             | 1.51             | 1.52             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                      | 82°F<br>27.8°C              | TC                  | 16622            | 17327            | 18017            | 18140            | 18965            | 17719            | 17748            | 18039            | 18162            | 18986            | 18548            | 18573            | 18582            | 18611            | 19003            | 20118            | 20144            | 20194            | 20200            | 20224            |
|                      |                             | S/T                 | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                      |                             | PI                  | 1.55             | 1.56             | 1.56             | 1.56             | 1.57             | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.59             | 1.59             | 1.58             | 1.58             | 1.58             |

Table 12: COOLING PERFORMANCE 18K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1952             | 86°F<br>30.0°C           | TC                  | 17083            | 17874            | 18599            | 18727            | 19600            | 18211            | 18249            | 18621            | 18750            | 19616            | 19080            | 19102            | 19132            | 19149            | 19634            | 20720            | 20749            | 20798            | 20803            | 20825            |
|                  |                          | S/T                 | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                  |                          | PI                  | 1.62             | 1.63             | 1.64             | 1.64             | 1.65             | 1.63             | 1.63             | 1.64             | 1.64             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
|                  | 95°F<br>35.0°C           | TC                  | 18342            | 18375            | 18769            | 18880            | 19620            | 19515            | 19520            | 19527            | 19528            | 19660            | 20358            | 20360            | 20370            | 20372            | 20381            | 21977            | 21969            | 21971            | 21970            | 21987            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 1.72             | 1.72             | 1.73             | 1.74             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                  | 104°F<br>40.0°C          | TC                  | 15772            | 15829            | 16285            | 16381            | 17030            | 16782            | 16787            | 16792            | 16792            | 17014            | 17507            | 17510            | 17519            | 17520            | 17526            | 18898            | 18891            | 18895            | 18892            | 18910            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|                  |                          | PI                  | 1.53             | 1.53             | 1.55             | 1.55             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |
|                  | 110°F<br>43.0°C          | TC                  | 14139            | 14521            | 15072            | 15170            | 15821            | 15104            | 15109            | 15175            | 15204            | 15839            | 15794            | 15803            | 15808            | 15809            | 15901            | 17120            | 17112            | 17129            | 17132            | 17145            |
|                  |                          | S/T                 | 0.89             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 1.43             | 1.44             | 1.46             | 1.46             | 1.48             | 1.46             | 1.46             | 1.46             | 1.46             | 1.49             | 1.49             | 1.49             | 1.48             | 1.48             | 1.49             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                  | 115°F<br>46.0°C          | TC                  | 11345            | 11773            | 12235            | 12317            | 12866            | 12118            | 12121            | 12227            | 12333            | 12881            | 12696            | 12708            | 12711            | 12711            | 12893            | 13779            | 13772            | 13794            | 13796            | 13803            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.98             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.40             | 0.50             | 0.61             | 0.63             | 0.75             |
|                  |                          | PI                  | 1.28             | 1.30             | 1.31             | 1.31             | 1.33             | 1.31             | 1.31             | 1.31             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
|                  | 122°F<br>50.0°C          | TC                  | 7748             | 8172             | 8536             | 8601             | 9033             | 8107             | 8170             | 8546             | 8610             | 9042             | 8537             | 8537             | 8581             | 8607             | 9050             | 9343             | 9362             | 9367             | 9366             | 9361             |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.80             | 0.98             | 1.00             | 1.00             | 1.00             | 0.64             | 0.81             | 0.95             | 0.98             | 1.00             | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|                  |                          | PI                  | 1.11             | 1.12             | 1.13             | 1.13             | 1.14             | 1.12             | 1.12             | 1.13             | 1.13             | 1.14             | 1.13             | 1.13             | 1.13             | 1.13             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             |
| 2366             | -22°F<br>-30.0°C         | TC                  | 21413            | 21403            | 21709            | 21799            | 22398            | 22341            | 22323            | 22309            | 22307            | 22288            | 23009            | 22980            | 22959            | 22955            | 22933            | 24270            | 24264            | 24214            | 24205            | 24154            |
|                  |                          | S/T                 | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                          | PI                  | 1.62             | 1.62             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             |
|                  | -13°F<br>-25.0°C         | TC                  | 23197            | 23187            | 23518            | 23615            | 24265            | 24203            | 24183            | 24168            | 24166            | 24146            | 24927            | 24895            | 24872            | 24868            | 24845            | 26293            | 26286            | 26232            | 26222            | 26167            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |
|                  | -4°F<br>-20.0°C          | TC                  | 24982            | 24970            | 25327            | 25432            | 26132            | 26065            | 26043            | 26027            | 26025            | 26003            | 26844            | 26810            | 26785            | 26781            | 26756            | 28316            | 28308            | 28250            | 28239            | 28179            |
|                  |                          | S/T                 | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 1.74             | 1.74             | 1.74             | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                  | 0°F<br>-17.8°C           | TC                  | 25811            | 25796            | 26274            | 26384            | 27109            | 26918            | 26888            | 26867            | 26864            | 27134            | 27709            | 27670            | 27635            | 27631            | 27618            | 29199            | 29192            | 29190            | 29194            | 29213            |
|                  |                          | S/T                 | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             |
|                  | 5°F<br>-15.0°C           | TC                  | 26551            | 26642            | 27251            | 27377            | 28221            | 27796            | 27803            | 27805            | 27834            | 28249            | 28685            | 28692            | 28696            | 28699            | 28737            | 30368            | 30358            | 30374            | 30378            | 30391            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                  | 14°F<br>-10.0°C          | TC                  | 26488            | 26475            | 27015            | 27142            | 27984            | 27803            | 27779            | 27760            | 27757            | 28017            | 28756            | 28720            | 28691            | 28686            | 28657            | 30577            | 30567            | 30509            | 30498            | 30433            |
|                  |                          | S/T                 | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 1.85             | 1.85             | 1.85             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                  | 17°F<br>-8.3°C           | TC                  | 26405            | 26492            | 27104            | 27236            | 28121            | 27720            | 27731            | 27736            | 27760            | 28151            | 28666            | 28677            | 28688            | 28689            | 28725            | 30487            | 30479            | 30474            | 30480            | 30505            |
|                  |                          | S/T                 | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.88             |
|                  | 23°F<br>-5.0°C           | TC                  | 26356            | 26470            | 27154            | 27288            | 28188            | 27691            | 27699            | 27702            | 27738            | 28218            | 28646            | 28656            | 28663            | 28664            | 28710            | 30459            | 30450            | 30471            | 30476            | 30493            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                  | 35°F<br>1.7°C            | TC                  | 26506            | 26507            | 26663            | 26737            | 27600            | 27745            | 27744            | 27746            | 27746            | 27820            | 28614            | 28612            | 28613            | 28614            | 28617            | 30225            | 30217            | 30216            | 30215            | 30217            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 1.64             | 1.65             | 1.66             | 1.66             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 12: COOLING PERFORMANCE 18K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)      |                     |                     |                     |                     | 64.4°F(18.0°C)      |                     |                     |                     |                     | 67°F(19.4°C)        |                     |                     |                     |                     | 71.6°F(22.0°C)      |                     |                     |                     |                     |
|------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                  |                          |                     | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    |
|                  |                          |                     | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) |
| 2366             | 41°F<br>5.0°C            | TC                  | 26312               | 26313               | 26522               | 26706               | 27496               | 27536               | 27535               | 27537               | 27537               | 27634               | 28395               | 28393               | 28395               | 28395               | 28397               | 29988               | 29981               | 29979               | 29977               | 29981               |
|                  |                          | S/T                 | 0.78                | 0.89                | 0.98                | 1.00                | 1.00                | 0.64                | 0.74                | 0.83                | 0.84                | 0.94                | 0.54                | 0.64                | 0.72                | 0.74                | 0.84                | 0.39                | 0.47                | 0.55                | 0.56                | 0.66                |
|                  |                          | PI                  | 1.58                | 1.58                | 1.60                | 1.61                | 1.68                | 1.68                | 1.68                | 1.68                | 1.68                | 1.69                | 1.76                | 1.76                | 1.76                | 1.76                | 1.76                | 1.92                | 1.92                | 1.91                | 1.91                | 1.92                |
|                  | 47°F<br>8.3°C            | TC                  | 26117               | 26135               | 26485               | 26603               | 27390               | 27328               | 27327               | 27328               | 27328               | 27454               | 28177               | 28174               | 28176               | 28176               | 28176               | 29754               | 29747               | 29744               | 29743               | 29746               |
|                  |                          | S/T                 | 0.79                | 0.90                | 1.00                | 1.00                | 1.00                | 0.64                | 0.75                | 0.84                | 0.85                | 0.96                | 0.54                | 0.65                | 0.73                | 0.75                | 0.85                | 0.39                | 0.47                | 0.55                | 0.57                | 0.67                |
|                  |                          | PI                  | 1.52                | 1.52                | 1.55                | 1.56                | 1.63                | 1.62                | 1.62                | 1.62                | 1.62                | 1.63                | 1.70                | 1.70                | 1.70                | 1.70                | 1.70                | 1.85                | 1.85                | 1.85                | 1.85                | 1.85                |
|                  | 50°F<br>10.0°C           | TC                  | 25075               | 25766               | 26635               | 26790               | 27828               | 26491               | 26506               | 26689               | 26773               | 27855               | 27524               | 27560               | 27575               | 27576               | 27842               | 29422               | 29499               | 29575               | 29584               | 29621               |
|                  |                          | S/T                 | 0.90                | 1.00                | 1.00                | 1.00                | 1.00                | 0.71                | 0.85                | 0.96                | 0.99                | 1.00                | 0.59                | 0.72                | 0.83                | 0.85                | 0.99                | 0.40                | 0.50                | 0.60                | 0.62                | 0.74                |
|                  |                          | PI                  | 1.71                | 1.71                | 1.71                | 1.71                | 1.70                | 1.71                | 1.71                | 1.71                | 1.71                | 1.70                | 1.71                | 1.71                | 1.71                | 1.71                | 1.70                | 1.70                | 1.70                | 1.70                | 1.70                | 1.70                |
|                  | 59°F<br>15.0°C           | TC                  | 23360               | 24179               | 25038               | 25190               | 26215               | 24716               | 24750               | 25030               | 25217               | 26241               | 25735               | 25761               | 25770               | 25808               | 26262               | 27635               | 27690               | 27745               | 27751               | 27775               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.73                | 0.86                | 1.00                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 1.72                | 1.72                | 1.73                | 1.73                | 1.73                | 1.72                | 1.72                | 1.73                | 1.73                | 1.73                | 1.73                | 1.73                | 1.73                | 1.73                | 1.73                | 1.74                | 1.74                | 1.74                | 1.74                | 1.74                |
|                  | 68°F<br>20.0°C           | TC                  | 21645               | 22569               | 23405               | 23554               | 24554               | 22914               | 22966               | 23431               | 23580               | 24578               | 23905               | 23923               | 23966               | 23987               | 24598               | 25758               | 25805               | 25846               | 25850               | 25864               |
|                  |                          | S/T                 | 0.95                | 1.00                | 1.00                | 1.00                | 1.00                | 0.74                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.89                | 1.00                | 0.40                | 0.51                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 1.73                | 1.74                | 1.75                | 1.75                | 1.76                | 1.74                | 1.74                | 1.75                | 1.75                | 1.76                | 1.76                | 1.75                | 1.75                | 1.75                | 1.76                | 1.78                | 1.78                | 1.78                | 1.78                | 1.78                |
|                  | 77°F<br>25.0°C           | TC                  | 19925               | 20885               | 21702               | 21847               | 22823               | 21123               | 21190               | 21726               | 21871               | 22846               | 22080               | 22105               | 22161               | 22186               | 22865               | 23847               | 23920               | 23975               | 23981               | 24003               |
|                  |                          | S/T                 | 0.97                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.90                | 1.00                | 1.00                | 1.00                | 0.61                | 0.76                | 0.88                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.79                |
|                  |                          | PI                  | 1.76                | 1.77                | 1.77                | 1.78                | 1.78                | 1.77                | 1.77                | 1.77                | 1.78                | 1.78                | 1.78                | 1.78                | 1.78                | 1.78                | 1.78                | 1.80                | 1.80                | 1.80                | 1.80                | 1.80                |
|                  | 82°F<br>27.8°C           | TC                  | 19628               | 20630               | 21462               | 21607               | 22597               | 20799               | 20879               | 21480               | 21631               | 22620               | 21767               | 21794               | 21862               | 21889               | 22640               | 23534               | 23623               | 23684               | 23691               | 23716               |
|                  |                          | S/T                 | 0.99                | 1.00                | 1.00                | 1.00                | 1.00                | 0.76                | 0.91                | 1.00                | 1.00                | 1.00                | 0.62                | 0.77                | 0.89                | 0.92                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.80                |
|                  |                          | PI                  | 1.81                | 1.82                | 1.83                | 1.83                | 1.83                | 1.82                | 1.82                | 1.82                | 1.83                | 1.83                | 1.83                | 1.83                | 1.83                | 1.83                | 1.84                | 1.85                | 1.85                | 1.85                | 1.85                | 1.84                |
|                  | 86°F<br>30.0°C           | TC                  | 20281               | 21293               | 22164               | 22319               | 23358               | 21388               | 21486               | 22189               | 22344               | 23382               | 22401               | 22427               | 22509               | 22542               | 23402               | 24252               | 24346               | 24403               | 24409               | 24432               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.77                | 0.93                | 1.00                | 1.00                | 1.00                | 0.62                | 0.78                | 0.91                | 0.93                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.81                |
|                  |                          | PI                  | 1.89                | 1.90                | 1.91                | 1.91                | 1.92                | 1.90                | 1.90                | 1.91                | 1.91                | 1.92                | 1.91                | 1.91                | 1.91                | 1.91                | 1.92                | 1.94                | 1.94                | 1.94                | 1.93                | 1.93                |
|                  | 95°F<br>35.0°C           | TC                  | 21604               | 21721               | 22423               | 22556               | 23447               | 22961               | 22974               | 22981               | 23009               | 23477               | 23946               | 23951               | 23966               | 23968               | 24008               | 25803               | 25793               | 25799               | 25806               | 25841               |
|                  |                          | S/T                 | 0.83                | 0.95                | 1.00                | 1.00                | 1.00                | 0.66                | 0.78                | 0.88                | 0.89                | 1.00                | 0.56                | 0.67                | 0.76                | 0.78                | 0.88                | 0.39                | 0.48                | 0.57                | 0.58                | 0.68                |
|                  |                          | PI                  | 2.00                | 2.00                | 2.03                | 2.04                | 2.08                | 2.06                | 2.06                | 2.06                | 2.06                | 2.08                | 2.11                | 2.11                | 2.11                | 2.11                | 2.11                | 2.19                | 2.19                | 2.19                | 2.19                | 2.19                |
|                  | 104°F<br>40.0°C          | TC                  | 18579               | 18749               | 19455               | 19572               | 20353               | 19750               | 19761               | 19796               | 19817               | 20378               | 20592               | 20601               | 20611               | 20612               | 20671               | 22195               | 22187               | 22197               | 22205               | 22228               |
|                  |                          | S/T                 | 0.85                | 0.98                | 1.00                | 1.00                | 1.00                | 0.68                | 0.80                | 0.90                | 0.92                | 1.00                | 0.56                | 0.68                | 0.78                | 0.80                | 0.91                | 0.39                | 0.48                | 0.58                | 0.59                | 0.70                |
|                  |                          | PI                  | 1.78                | 1.78                | 1.82                | 1.82                | 1.86                | 1.83                | 1.83                | 1.83                | 1.83                | 1.86                | 1.87                | 1.87                | 1.87                | 1.87                | 1.87                | 1.95                | 1.95                | 1.95                | 1.95                | 1.95                |
|                  | 110°F<br>43.0°C          | TC                  | 16700               | 17341               | 18003               | 18120               | 18905               | 17779               | 17785               | 17983               | 18141               | 18924               | 18580               | 18594               | 18599               | 18613               | 18941               | 20110               | 20111               | 20143               | 20146               | 20157               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.72                | 0.87                | 0.99                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 1.66                | 1.69                | 1.71                | 1.71                | 1.74                | 1.70                | 1.70                | 1.71                | 1.71                | 1.74                | 1.73                | 1.73                | 1.73                | 1.73                | 1.74                | 1.79                | 1.79                | 1.79                | 1.79                | 1.79                |
|                  | 115°F<br>46.0°C          | TC                  | 13410               | 14056               | 14611               | 14720               | 15368               | 14260               | 14289               | 14628               | 14739               | 15384               | 14925               | 14934               | 14955               | 14969               | 15397               | 16183               | 16196               | 16218               | 16220               | 16225               |
|                  |                          | S/T                 | 0.96                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 1.50                | 1.52                | 1.54                | 1.55                | 1.57                | 1.53                | 1.53                | 1.54                | 1.55                | 1.57                | 1.55                | 1.55                | 1.55                | 1.55                | 1.57                | 1.60                | 1.60                | 1.60                | 1.60                | 1.59                |
|                  | 122°F<br>50.0°C          | TC                  | 9141                | 9646                | 10078               | 10153               | 10666               | 9433                | 9656                | 10089               | 10164               | 10676               | 9934                | 9931                | 10096               | 10172               | 10682               | 10847               | 10889               | 10892               | 10891               | 10905               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.84                | 1.00                | 1.00                | 1.00                | 1.00                | 0.67                | 0.85                | 1.00                | 1.00                | 1.00                | 0.41                | 0.55                | 0.69                | 0.72                | 0.88                |
|                  |                          | PI                  | 1.29                | 1.30                | 1.31                | 1.32                | 1.33                | 1.30                | 1.30                | 1.31                | 1.32                | 1.33                | 1.31                | 1.31                | 1.32                | 1.32                | 1.33                | 1.34                | 1.34                | 1.34                | 1.33                | 1.33                |

## COOLING PERFORMANCE 24K

Table 13: COOLING PERFORMANCE 24K - DUCTED

| AIRFL<br>OW<br>(CFM) | OUTD<br>OOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br><br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|----------------------|------------------------------|------------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                      |                              |                                                | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                      |                              |                                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 588                  | -22°F<br>-30.0°C             | TC                                             | 15973            | 15971            | 15968            | 15968            | 15965            | 16716            | 16712            | 16709            | 16709            | 16706            | 17243            | 17239            | 17235            | 17234            | 17231            | 18232            | 18227            | 18223            | 18222            | 18217            |
|                      |                              | S/T                                            | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.74             | 0.38             | 0.46             | 0.51             | 0.52             | 0.59             |
|                      |                              | PI                                             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |
|                      | -13°F<br>-25.0°C             | TC                                             | 17304            | 17301            | 17299            | 17299            | 17296            | 18109            | 18105            | 18102            | 18101            | 18098            | 18680            | 18676            | 18671            | 18671            | 18666            | 19752            | 19746            | 19742            | 19741            | 19735            |
|                      |                              | S/T                                            | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                      |                              | PI                                             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                      | -4°F<br>-20.0°C              | TC                                             | 18635            | 18632            | 18630            | 18630            | 18626            | 19502            | 19497            | 19494            | 19494            | 19490            | 20117            | 20112            | 20108            | 20107            | 20102            | 21271            | 21265            | 21260            | 21260            | 21253            |
|                      |                              | S/T                                            | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                      |                              | PI                                             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                      | 0°F<br>-17.8°C               | TC                                             | 19241            | 19238            | 19235            | 19234            | 19228            | 20128            | 20124            | 20120            | 20119            | 20114            | 20756            | 20751            | 20746            | 20745            | 20739            | 21927            | 21922            | 21917            | 21917            | 21908            |
|                      |                              | S/T                                            | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                      |                              | PI                                             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             |
|                      | 5°F<br>-15.0°C               | TC                                             | 19845            | 19845            | 19845            | 19845            | 20142            | 20836            | 20832            | 20831            | 20832            | 20834            | 21548            | 21547            | 21544            | 21543            | 21545            | 22914            | 22908            | 22903            | 22902            | 22902            |
|                      |                              | S/T                                            | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             |
|                      | 14°F<br>-10.0°C              | TC                                             | 19779            | 19776            | 19774            | 19773            | 19870            | 20817            | 20812            | 20809            | 20808            | 20804            | 21559            | 21554            | 21548            | 21548            | 21543            | 22968            | 22961            | 22956            | 22955            | 22947            |
|                      |                              | S/T                                            | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                      |                              | PI                                             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                      | 17°F<br>-8.3°C               | TC                                             | 19772            | 19768            | 19765            | 19765            | 20050            | 20809            | 20804            | 20800            | 20799            | 20799            | 21554            | 21553            | 21550            | 21549            | 21553            | 23009            | 23003            | 22997            | 22996            | 22998            |
|                      |                              | S/T                                            | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                      | 23°F<br>-5.0°C               | TC                                             | 20264            | 20265            | 20265            | 20278            | 20648            | 21355            | 21351            | 21350            | 21351            | 21353            | 22140            | 22138            | 22135            | 22134            | 22137            | 23649            | 23642            | 23636            | 23635            | 23635            |
|                      |                              | S/T                                            | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                      | 35°F<br>1.7°C                | TC                                             | 21416            | 21414            | 21413            | 21413            | 21442            | 22525            | 22523            | 22521            | 22520            | 22518            | 23310            | 23305            | 23304            | 23303            | 23300            | 24778            | 24772            | 24768            | 24767            | 24765            |
|                      |                              | S/T                                            | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                      |                              | PI                                             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                      | 41°F<br>5.0°C                | TC                                             | 21255            | 21253            | 21252            | 21251            | 21301            | 22347            | 22345            | 22342            | 22342            | 22340            | 23120            | 23115            | 23113            | 23113            | 23109            | 24566            | 24561            | 24556            | 24555            | 24553            |
|                      |                              | S/T                                            | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                      |                              | PI                                             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             |
|                      | 47°F<br>8.3°C                | TC                                             | 21090            | 21088            | 21087            | 21086            | 21160            | 22167            | 22164            | 22161            | 22161            | 22159            | 22929            | 22924            | 22922            | 22922            | 22918            | 24353            | 24347            | 24342            | 24342            | 24339            |
|                      |                              | S/T                                            | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                      |                              | PI                                             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                      | 50°F<br>10.0°C               | TC                                             | 20311            | 20314            | 20501            | 20667            | 21434            | 21539            | 21544            | 21550            | 21551            | 21630            | 22431            | 22433            | 22443            | 22445            | 22453            | 24158            | 24149            | 24152            | 24151            | 24172            |
|                      |                              | S/T                                            | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                      |                              | PI                                             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
| 59°F<br>15.0°C       | TC                           | 18917                                          | 18946            | 19319            | 19432            | 20191            | 20120            | 20124            | 20128            | 20128            | 20252            | 21000            | 20995            | 21003            | 21005            | 21011            | 22688            | 22679            | 22681            | 22680            | 22697            |                  |
|                      | S/T                          | 0.80                                           | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                      | PI                           | 1.61                                           | 1.61             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |                  |
| 68°F<br>20.0°C       | TC                           | 17546                                          | 17603            | 18100            | 18211            | 18956            | 18711            | 18714            | 18717            | 18717            | 18942            | 19561            | 19557            | 19564            | 19565            | 19569            | 21197            | 21188            | 21188            | 21188            | 21204            |                  |
|                      | S/T                          | 0.82                                           | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |                  |
|                      | PI                           | 1.58                                           | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |                  |
| 77°F<br>25.0°C       | TC                           | 16160                                          | 16240            | 16797            | 16907            | 17634            | 17290            | 17296            | 17300            | 17317            | 17660            | 18117            | 18116            | 18125            | 18127            | 18148            | 19708            | 19699            | 19701            | 19702            | 19724            |                  |
|                      | S/T                          | 0.83                                           | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |                  |
|                      | PI                           | 1.57                                           | 1.57             | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.59             | 1.59             | 1.59             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |                  |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 13: COOLING PERFORMANCE 24K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 588              | 82°F<br>27.8°C           | TC                                         | 16014            | 16117            | 16735            | 16846            | 17590            | 17163            | 17172            | 17186            | 17201            | 17616            | 18005            | 18006            | 18016            | 18017            | 18048            | 19625            | 19615            | 19619            | 19621            | 19647            |
|                  |                          | S/T                                        | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                                         | 1.61             | 1.61             | 1.62             | 1.62             | 1.63             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             |
|                  | 86°F<br>30.0°C           | TC                                         | 16678            | 16823            | 17525            | 17643            | 18436            | 17897            | 17905            | 17930            | 17947            | 18463            | 18787            | 18789            | 18799            | 18800            | 18843            | 20502            | 20492            | 20496            | 20500            | 20526            |
|                  |                          | S/T                                        | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.69             | 1.69             | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                  | 95°F<br>35.0°C           | TC                                         | 18443            | 18442            | 18443            | 18464            | 18937            | 19677            | 19673            | 19671            | 19671            | 19675            | 20568            | 20566            | 20562            | 20561            | 20562            | 22289            | 22281            | 22275            | 22274            | 22274            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             |
|                  | 104°F<br>40.0°C          | TC                                         | 16135            | 16136            | 16165            | 16187            | 16727            | 17213            | 17209            | 17209            | 17209            | 17213            | 17992            | 17990            | 17986            | 17986            | 17988            | 19493            | 19486            | 19481            | 19480            | 19480            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.61             | 0.71             | 0.78             | 0.80             | 0.89             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             |
|                  | 110°F<br>43.0°C          | TC                                         | 14657            | 14678            | 15007            | 15104            | 15740            | 15694            | 15692            | 15695            | 15695            | 15785            | 16441            | 16439            | 16441            | 16442            | 16446            | 17883            | 17875            | 17875            | 17875            | 17874            |
|                  |                          | S/T                                        | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                         | 1.66             | 1.66             | 1.67             | 1.68             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             |
|                  | 115°F<br>46.0°C          | TC                                         | 11674            | 11718            | 12119            | 12198            | 12732            | 12521            | 12523            | 12525            | 12525            | 12751            | 13134            | 13133            | 13137            | 13137            | 13138            | 14314            | 14308            | 14307            | 14306            | 14312            |
|                  |                          | S/T                                        | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.89             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                         | 1.50             | 1.51             | 1.52             | 1.52             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                  | 122°F<br>50.0°C          | TC                                         | 7679             | 8011             | 8363             | 8424             | 8841             | 8282             | 8282             | 8355             | 8435             | 8853             | 8728             | 8731             | 8731             | 8731             | 8862             | 9592             | 9587             | 9593             | 9594             | 9596             |
|                  |                          | S/T                                        | 0.93             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.39             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                                         | 1.30             | 1.31             | 1.32             | 1.32             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
| 824              | -22°F<br>-30.0°C         | TC                                         | 19003            | 18999            | 18995            | 18995            | 19385            | 19859            | 19853            | 19848            | 19847            | 19840            | 20465            | 20459            | 20452            | 20450            | 20441            | 21603            | 21597            | 21589            | 21588            | 21574            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.93             | 0.99             | 0.61             | 0.70             | 0.77             | 0.79             | 0.88             | 0.52             | 0.61             | 0.68             | 0.70             | 0.78             | 0.38             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                  | -13°F<br>-25.0°C         | TC                                         | 20587            | 20582            | 20578            | 20578            | 21000            | 21514            | 21508            | 21502            | 21501            | 21494            | 22171            | 22163            | 22156            | 22154            | 22144            | 23403            | 23397            | 23388            | 23387            | 23372            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                          | PI                                         | 1.62             | 1.62             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                  | -4°F<br>-20.0°C          | TC                                         | 22170            | 22166            | 22161            | 22161            | 22616            | 23169            | 23162            | 23156            | 23155            | 23147            | 23876            | 23868            | 23860            | 23858            | 23848            | 25203            | 25197            | 25187            | 25186            | 25170            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 1.68             | 1.68             | 1.68             | 1.68             | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
|                  | 0°F<br>-17.8°C           | TC                                         | 22895            | 22889            | 22884            | 22883            | 23453            | 23916            | 23908            | 23899            | 23897            | 23887            | 24638            | 24628            | 24618            | 24615            | 24600            | 25979            | 25974            | 25971            | 25970            | 25973            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             |
|                  | 5°F<br>-15.0°C           | TC                                         | 23591            | 23594            | 23667            | 23701            | 24394            | 24740            | 24739            | 24743            | 24743            | 24773            | 25564            | 25563            | 25564            | 25565            | 25570            | 27135            | 27128            | 27128            | 27127            | 27129            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                  | 14°F<br>-10.0°C          | TC                                         | 23526            | 23521            | 23517            | 23516            | 24184            | 24728            | 24721            | 24714            | 24712            | 24705            | 25587            | 25579            | 25570            | 25568            | 25556            | 27220            | 27212            | 27202            | 27201            | 27183            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 1.71             | 1.71             | 1.71             | 1.71             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                  | 17°F<br>-8.3°C           | TC                                         | 23502            | 23495            | 23556            | 23589            | 24296            | 24703            | 24694            | 24700            | 24701            | 24727            | 25568            | 25568            | 25572            | 25573            | 25581            | 27245            | 27237            | 27240            | 27238            | 27245            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                  | 23°F<br>-5.0°C           | TC                                         | 24091            | 24094            | 24192            | 24235            | 25031            | 25356            | 25355            | 25359            | 25360            | 25401            | 26264            | 26263            | 26266            | 26267            | 26272            | 28004            | 27995            | 27997            | 27995            | 27999            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             |

Table 13: COOLING PERFORMANCE 24K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 824              | 35°F<br>1.7°C            | TC                                         | 25502            | 25500            | 25501            | 25501            | 25829            | 26770            | 26765            | 26763            | 26763            | 26764            | 27660            | 27658            | 27653            | 27653            | 27652            | 29323            | 29316            | 29310            | 29309            | 29308            |
|                  |                          | S/T                                        | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                                         | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                  | 41°F<br>5.0°C            | TC                                         | 25243            | 25304            | 25304            | 25312            | 25728            | 26555            | 26550            | 26548            | 26549            | 26549            | 27433            | 27431            | 27427            | 27426            | 27425            | 29072            | 29065            | 29059            | 29058            | 29056            |
|                  |                          | S/T                                        | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 1.70             | 1.70             | 1.70             | 1.70             | 1.74             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                  | 47°F<br>8.3°C            | TC                                         | 25107            | 25106            | 25105            | 25130            | 25625            | 26339            | 26334            | 26332            | 26332            | 26333            | 27207            | 27204            | 27200            | 27199            | 27199            | 28823            | 28816            | 28811            | 28810            | 28808            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                                         | 1.70             | 1.70             | 1.70             | 1.71             | 1.75             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             |
|                  | 50°F<br>10.0°C           | TC                                         | 24130            | 24233            | 24917            | 25058            | 26005            | 25562            | 25578            | 25585            | 25612            | 26038            | 26600            | 26615            | 26631            | 26633            | 26672            | 28581            | 28571            | 28604            | 28612            | 28650            |
|                  |                          | S/T                                        | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                                         | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                  | 59°F<br>15.0°C           | TC                                         | 22475            | 22636            | 23436            | 23576            | 24513            | 23882            | 23893            | 23929            | 23951            | 24544            | 24899            | 24911            | 24923            | 24925            | 24985            | 26853            | 26842            | 26868            | 26874            | 26902            |
|                  |                          | S/T                                        | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                  | 68°F<br>20.0°C           | TC                                         | 20847            | 21197            | 21967            | 22104            | 23022            | 22211            | 22220            | 22281            | 22308            | 23052            | 23196            | 23208            | 23216            | 23217            | 23307            | 25093            | 25082            | 25107            | 25112            | 25132            |
|                  |                          | S/T                                        | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                                         | 1.83             | 1.83             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                  | 77°F<br>25.0°C           | TC                                         | 19199            | 19647            | 20400            | 20534            | 21431            | 20526            | 20536            | 20615            | 20649            | 21459            | 21479            | 21497            | 21508            | 21509            | 21620            | 23321            | 23310            | 23347            | 23353            | 23380            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                                         | 1.81             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             |
|                  | 82°F<br>27.8°C           | TC                                         | 19041            | 19558            | 20328            | 20465            | 21383            | 20376            | 20387            | 20485            | 20525            | 21411            | 21344            | 21367            | 21378            | 21380            | 21514            | 23219            | 23223            | 23252            | 23259            | 23289            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                                         | 1.86             | 1.86             | 1.87             | 1.87             | 1.88             | 1.87             | 1.87             | 1.87             | 1.87             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             |
|                  | 86°F<br>30.0°C           | TC                                         | 19844            | 20470            | 21291            | 21436            | 22414            | 21249            | 21259            | 21386            | 21443            | 22443            | 22273            | 22297            | 22308            | 22309            | 22482            | 24259            | 24260            | 24296            | 24302            | 24331            |
|                  |                          | S/T                                        | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                                         | 1.95             | 1.96             | 1.97             | 1.97             | 1.98             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                  | 95°F<br>35.0°C           | TC                                         | 21935            | 21939            | 22060            | 22117            | 23028            | 23369            | 23366            | 23372            | 23373            | 23415            | 24400            | 24400            | 24399            | 24400            | 24411            | 26389            | 26380            | 26372            | 26384            | 26377            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 2.09             | 2.09             | 2.09             | 2.10             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             |
|                  | 104°F<br>40.0°C          | TC                                         | 19187            | 19190            | 19387            | 19566            | 20337            | 20439            | 20438            | 20444            | 20444            | 20518            | 21342            | 21341            | 21343            | 21344            | 21353            | 23076            | 23068            | 23061            | 23068            | 23067            |
|                  |                          | S/T                                        | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                                         | 1.97             | 1.97             | 1.98             | 1.98             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             |
|                  | 110°F<br>43.0°C          | TC                                         | 17424            | 17557            | 18234            | 18351            | 19134            | 18628            | 18635            | 18651            | 18668            | 19161            | 19502            | 19501            | 19509            | 19510            | 19544            | 21168            | 21161            | 21161            | 21163            | 21179            |
|                  |                          | S/T                                        | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 1.91             | 1.92             | 1.94             | 1.95             | 1.98             | 1.96             | 1.96             | 1.96             | 1.96             | 1.98             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                  | 115°F<br>46.0°C          | TC                                         | 13876            | 14173            | 14727            | 14824            | 15479            | 14866            | 14871            | 14911            | 14932            | 15500            | 15579            | 15583            | 15588            | 15589            | 15647            | 16947            | 16940            | 16945            | 16949            | 16962            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                                         | 1.73             | 1.74             | 1.76             | 1.77             | 1.79             | 1.77             | 1.77             | 1.77             | 1.77             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                  | 122°F<br>50.0°C          | TC                                         | 9195             | 9714             | 10143            | 10219            | 10730            | 9817             | 9842             | 10156            | 10232            | 10742            | 10342            | 10344            | 10360            | 10372            | 10753            | 11342            | 11346            | 11355            | 11356            | 11354            |
|                  |                          | S/T                                        | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                                         | 1.50             | 1.52             | 1.53             | 1.53             | 1.54             | 1.52             | 1.52             | 1.53             | 1.53             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             |
|                  | -22°F<br>-30.0°C         | TC                                         | 22598            | 22590            | 22584            | 22715            | 23384            | 23593            | 23580            | 23569            | 23567            | 23551            | 24297            | 24284            | 24268            | 24266            | 24249            | 25630            | 25624            | 25605            | 25598            | 25560            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.81             | 1.81             | 1.81             | 1.81             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |

Table 13: COOLING PERFORMANCE 24K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1059             | -13°F<br>-25.0°C         | TC                                         | 24481            | 24472            | 24466            | 24608            | 25332            | 25559            | 25545            | 25533            | 25531            | 25514            | 26322            | 26308            | 26291            | 26288            | 26269            | 27766            | 27759            | 27738            | 27731            | 27690            |
|                  |                          | S/T                                        | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                                         | 1.88             | 1.88             | 1.88             | 1.88             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             |
|                  | -4°F<br>-20.0°C          | TC                                         | 26364            | 26355            | 26348            | 26501            | 27281            | 27525            | 27510            | 27497            | 27495            | 27476            | 28346            | 28332            | 28313            | 28310            | 28290            | 29902            | 29894            | 29872            | 29865            | 29820            |
|                  |                          | S/T                                        | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                                         | 1.95             | 1.95             | 1.95             | 1.95             | 1.94             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                  | 0°F<br>-17.8°C           | TC                                         | 27234            | 27222            | 27328            | 27536            | 28299            | 28422            | 28400            | 28384            | 28381            | 28376            | 29255            | 29238            | 29212            | 29208            | 29182            | 30832            | 30823            | 30824            | 30828            | 30851            |
|                  |                          | S/T                                        | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                                         | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                  | 5°F<br>-15.0°C           | TC                                         | 28035            | 28061            | 28439            | 28569            | 29443            | 29368            | 29375            | 29378            | 29378            | 29523            | 30330            | 30327            | 30335            | 30336            | 30340            | 32142            | 32132            | 32133            | 32135            | 32153            |
|                  |                          | S/T                                        | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                                         | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             |
|                  | 14°F<br>-10.0°C          | TC                                         | 27961            | 27951            | 28067            | 28312            | 29191            | 29365            | 29348            | 29334            | 29332            | 29316            | 30380            | 30365            | 30342            | 30338            | 30312            | 32290            | 32280            | 32257            | 32249            | 32200            |
|                  |                          | S/T                                        | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                                         | 1.99             | 1.99             | 1.99             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                  | 17°F<br>-8.3°C           | TC                                         | 27972            | 27979            | 28321            | 28485            | 29402            | 29376            | 29378            | 29385            | 29385            | 29525            | 30313            | 30324            | 30344            | 30345            | 30353            | 32329            | 32319            | 32322            | 32328            | 32358            |
|                  |                          | S/T                                        | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                                         | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                  | 23°F<br>-5.0°C           | TC                                         | 28628            | 28668            | 29134            | 29277            | 30234            | 30097            | 30105            | 30109            | 30110            | 30288            | 31159            | 31158            | 31167            | 31168            | 31174            | 33167            | 33157            | 33159            | 33163            | 33186            |
|                  |                          | S/T                                        | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                          | PI                                         | 2.01             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                  | 35°F<br>1.7°C            | TC                                         | 30342            | 30343            | 30401            | 30436            | 31218            | 31798            | 31793            | 31795            | 31796            | 31796            | 32820            | 32817            | 32814            | 32814            | 32818            | 34720            | 34712            | 34705            | 34710            | 34704            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 1.98             | 1.98             | 1.99             | 1.99             | 2.05             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             |
|                  | 41°F<br>5.0°C            | TC                                         | 30105            | 30105            | 30189            | 30229            | 31087            | 31542            | 31538            | 31539            | 31540            | 31567            | 32551            | 32548            | 32545            | 32546            | 32549            | 34425            | 34417            | 34410            | 34414            | 34409            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.98             | 1.98             | 1.99             | 2.00             | 2.06             | 2.11             | 2.10             | 2.10             | 2.10             | 2.11             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 47°F<br>8.3°C            | TC                                         | 29865            | 29865            | 29980            | 30032            | 30956            | 31286            | 31281            | 31282            | 31282            | 31330            | 32282            | 32279            | 32276            | 32276            | 32278            | 34135            | 34126            | 34124            | 34123            | 34118            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 1.98             | 1.98             | 1.99             | 2.00             | 2.08             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |
|                  | 50°F<br>10.0°C           | TC                                         | 28663            | 29131            | 30104            | 30277            | 31436            | 30347            | 30365            | 30463            | 30502            | 31473            | 31542            | 31582            | 31601            | 31603            | 31745            | 33814            | 33831            | 33913            | 33922            | 33967            |
|                  |                          | S/T                                        | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                                         | 2.21             | 2.21             | 2.21             | 2.21             | 2.20             | 2.21             | 2.21             | 2.21             | 2.21             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                  | 59°F<br>15.0°C           | TC                                         | 26723            | 27366            | 28329            | 28500            | 29647            | 28354            | 28366            | 28507            | 28562            | 29681            | 29531            | 29562            | 29574            | 29576            | 29771            | 31786            | 31795            | 31857            | 31864            | 31895            |
|                  |                          | S/T                                        | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                                         | 2.17             | 2.17             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                  | 68°F<br>20.0°C           | TC                                         | 24819            | 25620            | 26562            | 26730            | 27854            | 26370            | 26378            | 26585            | 26758            | 27885            | 27518            | 27540            | 27548            | 27549            | 27863            | 29713            | 29723            | 29771            | 29776            | 29798            |
|                  |                          | S/T                                        | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                                         | 2.13             | 2.14             | 2.15             | 2.15             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             |
|                  | 77°F<br>25.0°C           | TC                                         | 22881            | 23757            | 24679            | 24842            | 25940            | 24368            | 24380            | 24660            | 24872            | 25971            | 25481            | 25510            | 25522            | 25551            | 25994            | 27597            | 27622            | 27684            | 27691            | 27721            |
|                  |                          | S/T                                        | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                                         | 2.11             | 2.12             | 2.13             | 2.13             | 2.14             | 2.13             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             |
|                  | 82°F<br>27.8°C           | TC                                         | 22692            | 23654            | 24597            | 24764            | 25891            | 24190            | 24229            | 24627            | 24794            | 25920            | 25321            | 25355            | 25368            | 25408            | 25943            | 27466            | 27501            | 27569            | 27577            | 27610            |
|                  |                          | S/T                                        | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                  |                          | PI                                         | 2.16             | 2.17             | 2.18             | 2.18             | 2.19             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             |

Table 13: COOLING PERFORMANCE 24K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1059             | 86°F<br>30.0°C           | TC                  | 23635            | 24730            | 25733            | 25911            | 27118            | 25196            | 25248            | 25764            | 25942            | 27140            | 26398            | 26429            | 26471            | 26495            | 27165            | 28667            | 28709            | 28776            | 28783            | 28813            |
|                  |                          | S/T                 | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                  |                          | PI                  | 2.27             | 2.28             | 2.30             | 2.30             | 2.31             | 2.29             | 2.29             | 2.30             | 2.30             | 2.31             | 2.31             | 2.30             | 2.30             | 2.30             | 2.31             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             |
|                  | 95°F<br>35.0°C           | TC                  | 26070            | 26116            | 26677            | 26834            | 27886            | 27737            | 27744            | 27753            | 27755            | 27943            | 28935            | 28938            | 28952            | 28955            | 28968            | 31236            | 31224            | 31228            | 31226            | 31250            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 2.43             | 2.43             | 2.46             | 2.47             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.52             | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             |
|                  | 104°F<br>40.0°C          | TC                  | 22801            | 22882            | 23541            | 23680            | 24619            | 24260            | 24268            | 24274            | 24275            | 24595            | 25308            | 25312            | 25326            | 25328            | 25336            | 27319            | 27309            | 27315            | 27310            | 27336            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|                  |                          | PI                  | 2.29             | 2.29             | 2.32             | 2.33             | 2.38             | 2.36             | 2.36             | 2.36             | 2.36             | 2.37             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             |
|                  | 110°F<br>43.0°C          | TC                  | 20705            | 21265            | 22071            | 22214            | 23168            | 22118            | 22126            | 22222            | 22265            | 23194            | 23129            | 23142            | 23150            | 23150            | 23285            | 25070            | 25059            | 25084            | 25089            | 25107            |
|                  |                          | S/T                 | 0.89             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 2.23             | 2.25             | 2.28             | 2.28             | 2.32             | 2.28             | 2.28             | 2.28             | 2.29             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.40             | 2.39             | 2.39             | 2.39             | 2.39             |
|                  | 115°F<br>46.0°C          | TC                  | 16510            | 17131            | 17805            | 17924            | 18723            | 17634            | 17638            | 17792            | 17947            | 18745            | 18476            | 18492            | 18497            | 18498            | 18762            | 20051            | 20042            | 20073            | 20076            | 20086            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.98             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.40             | 0.50             | 0.61             | 0.63             | 0.75             |
|                  |                          | PI                  | 2.01             | 2.03             | 2.06             | 2.06             | 2.09             | 2.05             | 2.05             | 2.06             | 2.06             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             |
|                  | 122°F<br>50.0°C          | TC                  | 11100            | 11708            | 12229            | 12322            | 12941            | 11614            | 11705            | 12243            | 12336            | 12954            | 12231            | 12230            | 12294            | 12331            | 12965            | 13386            | 13412            | 13419            | 13419            | 13411            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.80             | 0.98             | 1.00             | 1.00             | 1.00             | 0.64             | 0.81             | 0.95             | 0.98             | 1.00             | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|                  |                          | PI                  | 1.75             | 1.77             | 1.78             | 1.79             | 1.80             | 1.77             | 1.77             | 1.78             | 1.79             | 1.80             | 1.79             | 1.78             | 1.78             | 1.79             | 1.80             | 1.82             | 1.82             | 1.82             | 1.82             | 1.81             |
| 1294             | -22°F<br>-30.0°C         | TC                  | 26859            | 26846            | 27229            | 27342            | 28095            | 28023            | 28000            | 27982            | 27980            | 27956            | 28861            | 28825            | 28797            | 28793            | 28766            | 30443            | 30434            | 30372            | 30361            | 30296            |
|                  |                          | S/T                 | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.12             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                  | -13°F<br>-25.0°C         | TC                  | 29097            | 29083            | 29498            | 29621            | 30436            | 30358            | 30333            | 30314            | 30311            | 30286            | 31266            | 31227            | 31197            | 31193            | 31163            | 32980            | 32971            | 32903            | 32891            | 32821            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.20             | 2.20             | 2.20             | 2.20             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                  | -4°F<br>-20.0°C          | TC                  | 31335            | 31321            | 31767            | 31899            | 32777            | 32694            | 32667            | 32646            | 32643            | 32616            | 33671            | 33629            | 33597            | 33592            | 33560            | 35516            | 35507            | 35434            | 35421            | 35346            |
|                  |                          | S/T                 | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.28             | 2.28             | 2.28             | 2.28             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             |
|                  | 0°F<br>-17.8°C           | TC                  | 32375            | 32356            | 32956            | 33094            | 34003            | 33764            | 33726            | 33700            | 33696            | 34035            | 34756            | 34706            | 34663            | 34658            | 34642            | 36625            | 36616            | 36613            | 36618            | 36642            |
|                  |                          | S/T                 | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             |
|                  | 5°F<br>-15.0°C           | TC                  | 33303            | 33418            | 34182            | 34339            | 35398            | 34865            | 34874            | 34876            | 34912            | 35432            | 35980            | 35989            | 35997            | 35998            | 36045            | 38090            | 38079            | 38099            | 38103            | 38120            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.32             | 2.32             | 2.32             | 2.32             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 2.35             | 2.35             | 2.35             | 2.35             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 14°F<br>-10.0°C          | TC                  | 33240            | 33224            | 33902            | 34061            | 35117            | 34891            | 34860            | 34836            | 34832            | 35158            | 36086            | 36041            | 36004            | 35999            | 35962            | 38371            | 38359            | 38286            | 38272            | 38191            |
|                  |                          | S/T                 | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.33             | 2.33             | 2.33             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             |
|                  | 17°F<br>-8.3°C           | TC                  | 33142            | 33250            | 34018            | 34184            | 35295            | 34792            | 34806            | 34812            | 34842            | 35333            | 35979            | 35993            | 36007            | 36008            | 36053            | 38265            | 38254            | 38248            | 38255            | 38287            |
|                  |                          | S/T                 | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             |
|                  | 23°F<br>-5.0°C           | TC                  | 34007            | 34153            | 35037            | 35210            | 36370            | 35729            | 35740            | 35744            | 35791            | 36409            | 36962            | 36974            | 36984            | 36985            | 37044            | 39301            | 39289            | 39317            | 39322            | 39345            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.36             | 2.37             | 2.37             | 2.38             | 2.39             | 2.38             | 2.38             | 2.38             | 2.38             | 2.39             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             |
|                  | 35°F<br>1.7°C            | TC                  | 36070            | 36072            | 36284            | 36385            | 37559            | 37756            | 37755            | 37758            | 37758            | 37859            | 38938            | 38936            | 38938            | 38939            | 38943            | 41131            | 41121            | 41119            | 41117            | 41121            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 2.33             | 2.33             | 2.34             | 2.35             | 2.45             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             |

Table 13: COOLING PERFORMANCE 24K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1294             | 41°F<br>5.0°C            | TC                  | 35786            | 35787            | 36072            | 36322            | 37396            | 37451            | 37450            | 37452            | 37452            | 37584            | 38619            | 38617            | 38619            | 38619            | 38622            | 40786            | 40776            | 40773            | 40771            | 40776            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 2.33             | 2.33             | 2.35             | 2.37             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             |
|                  | 47°F<br>8.3°C            | TC                  | 35501            | 35524            | 36001            | 36162            | 37231            | 37147            | 37146            | 37147            | 37146            | 37318            | 38300            | 38297            | 38300            | 38299            | 38299            | 40445            | 40435            | 40431            | 40429            | 40433            |
|                  |                          | S/T                 | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.33             | 2.33             | 2.38             | 2.39             | 2.49             | 2.48             | 2.48             | 2.48             | 2.48             | 2.50             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             |
|                  | 50°F<br>10.0°C           | TC                  | 34099            | 35038            | 36221            | 36430            | 37843            | 36025            | 36044            | 36294            | 36408            | 37879            | 37430            | 37479            | 37498            | 37500            | 37861            | 40010            | 40115            | 40219            | 40231            | 40281            |
|                  |                          | S/T                 | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                          | PI                  | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             |
|                  | 59°F<br>15.0°C           | TC                  | 31811            | 32927            | 34096            | 34303            | 35699            | 33658            | 33704            | 34086            | 34340            | 35735            | 35046            | 35082            | 35094            | 35145            | 35764            | 37633            | 37708            | 37783            | 37792            | 37823            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 2.55             | 2.55             | 2.56             | 2.56             | 2.57             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |
|                  | 68°F<br>20.0°C           | TC                  | 29523            | 30783            | 31925            | 32128            | 33491            | 31255            | 31325            | 31960            | 32163            | 33525            | 32606            | 32631            | 32689            | 32718            | 33552            | 35133            | 35198            | 35254            | 35259            | 35278            |
|                  |                          | S/T                 | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                  |                          | PI                  | 2.50             | 2.52             | 2.53             | 2.53             | 2.55             | 2.52             | 2.52             | 2.53             | 2.53             | 2.55             | 2.54             | 2.54             | 2.54             | 2.54             | 2.55             | 2.58             | 2.58             | 2.57             | 2.57             | 2.57             |
|                  | 77°F<br>25.0°C           | TC                  | 27229            | 28540            | 29657            | 29855            | 31189            | 28866            | 28958            | 29690            | 29888            | 31220            | 30174            | 30208            | 30285            | 30319            | 31246            | 32589            | 32688            | 32764            | 32772            | 32802            |
|                  |                          | S/T                 | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                  |                          | PI                  | 2.48             | 2.50             | 2.51             | 2.51             | 2.52             | 2.50             | 2.50             | 2.51             | 2.51             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.55             | 2.54             | 2.54             | 2.54             | 2.54             |
|                  | 82°F<br>27.8°C           | TC                  | 27026            | 28405            | 29551            | 29751            | 31114            | 28639            | 28749            | 29577            | 29785            | 31146            | 29971            | 30009            | 30102            | 30139            | 31174            | 32405            | 32527            | 32612            | 32620            | 32656            |
|                  |                          | S/T                 | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                  |                          | PI                  | 2.54             | 2.56             | 2.57             | 2.57             | 2.58             | 2.56             | 2.56             | 2.57             | 2.57             | 2.58             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             |
|                  | 86°F<br>30.0°C           | TC                  | 28301            | 29714            | 30929            | 31145            | 32595            | 29846            | 29983            | 30963            | 31180            | 32629            | 31260            | 31296            | 31411            | 31456            | 32657            | 33843            | 33973            | 34054            | 34062            | 34094            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                  |                          | PI                  | 2.67             | 2.69             | 2.70             | 2.70             | 2.72             | 2.69             | 2.69             | 2.70             | 2.70             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.72             | 2.74             | 2.74             | 2.74             | 2.74             | 2.73             |
|                  | 95°F<br>35.0°C           | TC                  | 30970            | 31137            | 32144            | 32334            | 33612            | 32915            | 32934            | 32944            | 32983            | 33654            | 34327            | 34334            | 34355            | 34359            | 34416            | 36989            | 36975            | 36983            | 36993            | 37043            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.86             | 2.86             | 2.91             | 2.92             | 2.98             | 2.95             | 2.95             | 2.95             | 2.95             | 2.98             | 3.01             | 3.01             | 3.01             | 3.01             | 3.02             | 3.14             | 3.14             | 3.14             | 3.14             | 3.14             |
|                  | 104°F<br>40.0°C          | TC                  | 27089            | 27337            | 28366            | 28537            | 29675            | 28796            | 28812            | 28863            | 28894            | 29712            | 30024            | 30036            | 30052            | 30054            | 30139            | 32361            | 32349            | 32364            | 32375            | 32409            |
|                  |                          | S/T                 | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.68             | 0.80             | 0.90             | 0.92             | 1.00             | 0.56             | 0.68             | 0.78             | 0.80             | 0.91             | 0.39             | 0.48             | 0.58             | 0.59             | 0.70             |
|                  |                          | PI                  | 2.69             | 2.70             | 2.75             | 2.76             | 2.81             | 2.77             | 2.77             | 2.77             | 2.78             | 2.81             | 2.83             | 2.83             | 2.83             | 2.83             | 2.84             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             |
|                  | 110°F<br>43.0°C          | TC                  | 24665            | 25613            | 26590            | 26762            | 27922            | 26260            | 26268            | 26561            | 26793            | 27951            | 27442            | 27463            | 27470            | 27491            | 27975            | 29703            | 29704            | 29750            | 29755            | 29772            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 2.62             | 2.66             | 2.69             | 2.70             | 2.74             | 2.68             | 2.68             | 2.69             | 2.70             | 2.74             | 2.73             | 2.73             | 2.72             | 2.73             | 2.74             | 2.82             | 2.82             | 2.81             | 2.81             | 2.81             |
|                  | 115°F<br>46.0°C          | TC                  | 19682            | 20630            | 21445            | 21605            | 22556            | 20930            | 20972            | 21469            | 21632            | 22579            | 21906            | 21919            | 21949            | 21971            | 22599            | 23753            | 23770            | 23803            | 23806            | 23814            |
|                  |                          | S/T                 | 0.96             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.78             |
|                  |                          | PI                  | 2.37             | 2.41             | 2.44             | 2.45             | 2.48             | 2.42             | 2.42             | 2.44             | 2.45             | 2.48             | 2.46             | 2.46             | 2.46             | 2.46             | 2.48             | 2.53             | 2.53             | 2.53             | 2.53             | 2.52             |
|                  | 122°F<br>50.0°C          | TC                  | 13209            | 13937            | 14561            | 14670            | 15411            | 13630            | 13952            | 14578            | 14687            | 15426            | 14354            | 14350            | 14588            | 14698            | 15435            | 15673            | 15734            | 15738            | 15736            | 15757            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.84             | 1.00             | 1.00             | 1.00             | 1.00             | 0.67             | 0.85             | 1.00             | 1.00             | 1.00             | 0.41             | 0.55             | 0.69             | 0.72             | 0.88             |
|                  |                          | PI                  | 2.06             | 2.08             | 2.10             | 2.10             | 2.12             | 2.07             | 2.08             | 2.10             | 2.10             | 2.12             | 2.09             | 2.09             | 2.10             | 2.10             | 2.12             | 2.14             | 2.13             | 2.13             | 2.13             | 2.13             |

# LCOOLING PERFORMANCE 30K

**Table 14: COOLING PERFORMANCE 30K - DUCTED**

| AIRFL<br>OW<br>(CFM) | OUTD<br>OOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|----------------------|------------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                      |                              |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                      |                              |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735                  | -22°F<br>-30.0°C             | TC                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      |                              | S/T                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      |                              | PI                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      | -13°F<br>-25.0°C             | TC                                         | 18526            | 18524            | 18521            | 18521            | 18517            | 19389            | 19383            | 19380            | 19380            | 19376            | 20000            | 19995            | 19990            | 19989            | 19985            | 21147            | 21141            | 21136            | 21135            | 21129            |
|                      |                              | S/T                                        | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                      |                              | PI                                         | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             |
|                      | -4°F<br>-20.0°C              | TC                                         | 19951            | 19948            | 19946            | 19945            | 19942            | 20880            | 20875            | 20871            | 20871            | 20867            | 21538            | 21533            | 21528            | 21527            | 21522            | 22773            | 22768            | 22762            | 22761            | 22754            |
|                      |                              | S/T                                        | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                      |                              | PI                                         | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                      | 0°F<br>-17.8°C               | TC                                         | 20601            | 20596            | 20593            | 20593            | 20587            | 21550            | 21546            | 21541            | 21540            | 21534            | 22223            | 22216            | 22211            | 22211            | 22204            | 23476            | 23470            | 23466            | 23465            | 23455            |
|                      |                              | S/T                                        | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                      |                              | PI                                         | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |
|                      | 5°F<br>-15.0°C               | TC                                         | 21246            | 21247            | 21247            | 21247            | 21564            | 22308            | 22304            | 22303            | 22303            | 22305            | 23070            | 23069            | 23066            | 23065            | 23067            | 24533            | 24526            | 24521            | 24520            | 24520            |
|                      |                              | S/T                                        | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                         | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             |
|                      | 14°F<br>-10.0°C              | TC                                         | 23560            | 23557            | 23554            | 23553            | 23668            | 24797            | 24791            | 24786            | 24786            | 24781            | 25680            | 25674            | 25668            | 25667            | 25662            | 27359            | 27351            | 27344            | 27343            | 27334            |
|                      |                              | S/T                                        | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                      |                              | PI                                         | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                      | 17°F<br>-8.3°C               | TC                                         | 24346            | 24341            | 24338            | 24337            | 24688            | 25623            | 25617            | 25612            | 25611            | 25611            | 26540            | 26539            | 26535            | 26535            | 26539            | 28332            | 28324            | 28318            | 28316            | 28318            |
|                      |                              | S/T                                        | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                         | 2.35             | 2.35             | 2.35             | 2.35             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                      | 23°F<br>-5.0°C               | TC                                         | 24767            | 24768            | 24768            | 24784            | 25236            | 26100            | 26095            | 26094            | 26095            | 26098            | 27059            | 27057            | 27053            | 27053            | 27055            | 28903            | 28895            | 28888            | 28887            | 28887            |
|                      |                              | S/T                                        | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                      |                              | PI                                         | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             |
|                      | 35°F<br>1.7°C                | TC                                         | 25813            | 25811            | 25809            | 25809            | 25845            | 27150            | 27148            | 27145            | 27144            | 27142            | 28096            | 28090            | 28089            | 28088            | 28084            | 29865            | 29858            | 29853            | 29852            | 29850            |
|                      |                              | S/T                                        | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                      |                              | PI                                         | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                      | 41°F<br>5.0°C                | TC                                         | 26777            | 26774            | 26773            | 26772            | 26835            | 28153            | 28150            | 28147            | 28146            | 28144            | 29126            | 29120            | 29118            | 29118            | 29112            | 30948            | 30941            | 30935            | 30934            | 30932            |
|                      |                              | S/T                                        | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                      |                              | PI                                         | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                      | 47°F<br>8.3°C                | TC                                         | 27738            | 27734            | 27733            | 27732            | 27829            | 29153            | 29150            | 29146            | 29146            | 29144            | 30156            | 30149            | 30147            | 30146            | 30142            | 32028            | 32021            | 32015            | 32014            | 32011            |
|                      |                              | S/T                                        | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                      |                              | PI                                         | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                      | 50°F<br>10.0°C               | TC                                         | 27140            | 27144            | 27394            | 27617            | 28642            | 28782            | 28788            | 28796            | 28797            | 28903            | 29973            | 29976            | 29989            | 29991            | 30003            | 32281            | 32269            | 32274            | 32271            | 32300            |
|                      |                              | S/T                                        | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                      |                              | PI                                         | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                      | 59°F<br>15.0°C               | TC                                         | 26581            | 26622            | 27146            | 27305            | 28373            | 28272            | 28278            | 28283            | 28284            | 28458            | 29509            | 29502            | 29514            | 29515            | 29524            | 31881            | 31868            | 31871            | 31869            | 31893            |
|                      |                              | S/T                                        | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                      |                              | PI                                         | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             |
|                      | 68°F<br>20.0°C               | TC                                         | 26043            | 26128            | 26866            | 27030            | 28136            | 27772            | 27777            | 27781            | 27781            | 28115            | 29034            | 29028            | 29039            | 29040            | 29046            | 31462            | 31448            | 31449            | 31448            | 31472            |
|                      |                              | S/T                                        | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                      |                              | PI                                         | 2.26             | 2.26             | 2.27             | 2.27             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.33             | 2.33             | 2.32             | 2.32             | 2.32             |
|                      | 77°F<br>25.0°C               | TC                                         | 25466            | 25592            | 26470            | 26643            | 27790            | 27248            | 27257            | 27263            | 27289            | 27830            | 28551            | 28549            | 28564            | 28566            | 28600            | 31058            | 31043            | 31047            | 31048            | 31084            |
|                      |                              | S/T                                        | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                      |                              | PI                                         | 2.43             | 2.43             | 2.44             | 2.44             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 14: COOLING PERFORMANCE 30K - DUCTED (Continued)

| AIRFLOW (CFM) | OUTDOOR DB °F (°C) | ID WB °F (°C)<br>ID DB °F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|---------------|--------------------|--------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|               |                    |                                | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|               |                    |                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735           | 82°F<br>27.8°C     | TC                             | 24800            | 24960            | 25917            | 26089            | 27242            | 26580            | 26593            | 26615            | 26639            | 27281            | 27883            | 27885            | 27901            | 27903            | 27951            | 30392            | 30377            | 30383            | 30386            | 30426            |
|               |                    | S/T                            | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI                             | 2.53             | 2.53             | 2.54             | 2.55             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             |
|               | 86°F<br>30.0°C     | TC                             | 23835            | 24043            | 25045            | 25214            | 26348            | 25577            | 25588            | 25624            | 25649            | 26386            | 26849            | 26853            | 26867            | 26868            | 26929            | 29300            | 29286            | 29291            | 29298            | 29334            |
|               |                    | S/T                            | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI                             | 2.62             | 2.62             | 2.63             | 2.64             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.66             | 2.66             | 2.66             | 2.66             | 2.66             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             |
|               | 95°F<br>35.0°C     | TC                             | 22011            | 22010            | 22012            | 22037            | 22601            | 23484            | 23479            | 23477            | 23477            | 23482            | 24547            | 24545            | 24540            | 24539            | 24540            | 26601            | 26592            | 26584            | 26583            | 26583            |
|               |                    | S/T                            | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|               |                    | PI                             | 2.71             | 2.71             | 2.71             | 2.71             | 2.75             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.98             | 2.98             | 2.98             | 2.98             | 2.98             |
|               | 104°F<br>40.0°C    | TC                             | 18707            | 18707            | 18741            | 18767            | 19393            | 19957            | 19952            | 19952            | 19952            | 19956            | 20859            | 20857            | 20852            | 20852            | 20855            | 22600            | 22592            | 22586            | 22585            | 22585            |
|               |                    | S/T                            | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.61             | 0.71             | 0.78             | 0.80             | 0.89             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.45             | 0.52             | 0.54             | 0.62             |
|               |                    | PI                             | 2.31             | 2.31             | 2.31             | 2.31             | 2.35             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             |
|               | 110°F<br>43.0°C    | TC                             | 16617            | 16641            | 17015            | 17125            | 17846            | 17793            | 17791            | 17795            | 17795            | 17897            | 18640            | 18638            | 18640            | 18641            | 18646            | 20275            | 20267            | 20266            | 20266            | 20265            |
|               |                    | S/T                            | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|               |                    | PI                             | 2.09             | 2.09             | 2.10             | 2.11             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             |
|               | 115°F<br>46.0°C    | TC                             | 14868            | 14925            | 15435            | 15535            | 16216            | 15948            | 15949            | 15952            | 15952            | 16240            | 16728            | 16726            | 16731            | 16732            | 16733            | 18231            | 18223            | 18221            | 18220            | 18228            |
|               |                    | S/T                            | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.89             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|               |                    | PI                             | 1.95             | 1.95             | 1.97             | 1.98             | 2.00             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|               | 122°F<br>50.0°C    | TC                             | 12477            | 13016            | 13588            | 13686            | 14364            | 13456            | 13456            | 13574            | 13705            | 14384            | 14181            | 14185            | 14186            | 14185            | 14398            | 15585            | 15576            | 15587            | 15588            | 15591            |
|               |                    | S/T                            | 0.93             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.39             | 0.50             | 0.61             | 0.62             | 0.75             |
|               |                    | PI                             | 1.78             | 1.79             | 1.81             | 1.81             | 1.82             | 1.80             | 1.80             | 1.80             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
| 1029          | -22°F<br>-30.0°C   | TC                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | S/T                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | PI                             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               | -13°F<br>-25.0°C   | TC                             | 22041            | 22036            | 22032            | 22031            | 22484            | 23033            | 23027            | 23021            | 23020            | 23012            | 23737            | 23729            | 23721            | 23719            | 23709            | 25056            | 25050            | 25040            | 25039            | 25023            |
|               |                    | S/T                            | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|               |                    | PI                             | 2.67             | 2.67             | 2.67             | 2.67             | 2.66             | 2.64             | 2.64             | 2.65             | 2.65             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             |
|               | -4°F<br>-20.0°C    | TC                             | 23737            | 23731            | 23727            | 23726            | 24213            | 24805            | 24798            | 24791            | 24790            | 24782            | 25563            | 25554            | 25546            | 25544            | 25532            | 26984            | 26977            | 26966            | 26965            | 26947            |
|               |                    | S/T                            | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|               |                    | PI                             | 2.76             | 2.76             | 2.76             | 2.77             | 2.75             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             |
|               | 0°F<br>-17.8°C     | TC                             | 24513            | 24506            | 24500            | 24499            | 25110            | 25606            | 25597            | 25587            | 25585            | 25574            | 26378            | 26368            | 26356            | 26354            | 26338            | 27815            | 27809            | 27806            | 27804            | 27807            |
|               |                    | S/T                            | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|               |                    | PI                             | 2.79             | 2.79             | 2.79             | 2.79             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             |
|               | 5°F<br>-15.0°C     | TC                             | 25258            | 25260            | 25339            | 25375            | 26117            | 26488            | 26487            | 26490            | 26491            | 26523            | 27370            | 27368            | 27370            | 27371            | 27376            | 29052            | 29044            | 29044            | 29043            | 29045            |
|               |                    | S/T                            | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|               |                    | PI                             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.82             | 2.82             | 2.82             | 2.82             | 2.83             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|               | 14°F<br>-10.0°C    | TC                             | 28024            | 28018            | 28012            | 28011            | 28807            | 29455            | 29447            | 29438            | 29437            | 29427            | 30479            | 30469            | 30458            | 30456            | 30442            | 32424            | 32415            | 32402            | 32401            | 32380            |
|               |                    | S/T                            | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|               |                    | PI                             | 2.74             | 2.75             | 2.75             | 2.75             | 2.74             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             |
|               | 17°F<br>-8.3°C     | TC                             | 28939            | 28930            | 29006            | 29047            | 29917            | 30417            | 30407            | 30414            | 30415            | 30447            | 31483            | 31483            | 31487            | 31490            | 31499            | 33548            | 33538            | 33542            | 33540            | 33547            |
|               |                    | S/T                            | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|               |                    | PI                             | 2.70             | 2.70             | 2.70             | 2.70             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             |
|               | 23°F<br>-5.0°C     | TC                             | 29445            | 29447            | 29567            | 29620            | 30593            | 30990            | 30989            | 30994            | 30995            | 31045            | 32100            | 32099            | 32102            | 32103            | 32110            | 34226            | 34216            | 34217            | 34216            | 34221            |
|               |                    | S/T                            | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|               |                    | PI                             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             |

Table 14: COOLING PERFORMANCE 30K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1029             | 35°F<br>1.7°C            | TC                  | 30738            | 30736            | 30736            | 30736            | 31132            | 32266            | 32260            | 32258            | 32258            | 32259            | 33339            | 33336            | 33331            | 33330            | 33329            | 35343            | 35334            | 35328            | 35326            | 35325            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                  | 2.01             | 2.01             | 2.01             | 2.01             | 2.04             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |
|                  | 41°F<br>5.0°C            | TC                  | 31801            | 31878            | 31878            | 31887            | 32413            | 33454            | 33448            | 33445            | 33446            | 33447            | 34561            | 34558            | 34552            | 34551            | 34550            | 36625            | 36616            | 36609            | 36607            | 36605            |
|                  |                          | S/T                 | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 1.98             | 1.99             | 1.99             | 1.99             | 2.03             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 47°F<br>8.3°C            | TC                  | 33020            | 33019            | 33018            | 33051            | 33701            | 34641            | 34635            | 34632            | 34632            | 34633            | 35782            | 35779            | 35773            | 35772            | 35772            | 37908            | 37899            | 37892            | 37891            | 37888            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                  | 1.97             | 1.97             | 1.97             | 1.97             | 2.02             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             |
|                  | 50°F<br>10.0°C           | TC                  | 32244            | 32381            | 33295            | 33484            | 34749            | 34158            | 34179            | 34188            | 34223            | 34793            | 35544            | 35564            | 35585            | 35588            | 35640            | 38192            | 38177            | 38222            | 38232            | 38284            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.25             | 2.25             |
|                  | 59°F<br>15.0°C           | TC                  | 31582            | 31808            | 32932            | 33129            | 34445            | 33559            | 33574            | 33625            | 33656            | 34489            | 34987            | 35005            | 35022            | 35024            | 35109            | 37734            | 37718            | 37755            | 37763            | 37803            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.43             | 2.43             | 2.44             | 2.44             | 2.45             | 2.45             | 2.44             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             |
|                  | 68°F<br>20.0°C           | TC                  | 30942            | 31462            | 32605            | 32808            | 34171            | 32967            | 32980            | 33071            | 33111            | 34215            | 34429            | 34447            | 34458            | 34460            | 34594            | 37245            | 37229            | 37265            | 37272            | 37303            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.61             | 2.61             | 2.63             | 2.63             | 2.64             | 2.63             | 2.63             | 2.63             | 2.63             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             |
|                  | 77°F<br>25.0°C           | TC                  | 30256            | 30962            | 32148            | 32359            | 33774            | 32348            | 32363            | 32487            | 32540            | 33817            | 33848            | 33878            | 33894            | 33897            | 34072            | 36752            | 36735            | 36793            | 36802            | 36844            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                  | 2.80             | 2.81             | 2.82             | 2.83             | 2.84             | 2.83             | 2.83             | 2.83             | 2.83             | 2.84             | 2.84             | 2.84             | 2.84             | 2.84             | 2.84             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                  | 82°F<br>27.8°C           | TC                  | 29488            | 30289            | 31482            | 31693            | 33114            | 31555            | 31572            | 31724            | 31787            | 33159            | 33055            | 33090            | 33108            | 33110            | 33318            | 35958            | 35964            | 36010            | 36020            | 36066            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                  | 2.92             | 2.93             | 2.94             | 2.94             | 2.96             | 2.94             | 2.94             | 2.94             | 2.95             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             |
|                  | 86°F<br>30.0°C           | TC                  | 28360            | 29254            | 30428            | 30635            | 32032            | 30367            | 30382            | 30563            | 30644            | 32074            | 31832            | 31865            | 31880            | 31883            | 32129            | 34669            | 34671            | 34722            | 34731            | 34771            |
|                  |                          | S/T                 | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                  | 3.02             | 3.03             | 3.04             | 3.05             | 3.06             | 3.05             | 3.04             | 3.05             | 3.05             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             |
|                  | 95°F<br>35.0°C           | TC                  | 26179            | 26184            | 26328            | 26396            | 27484            | 27890            | 27887            | 27894            | 27895            | 27945            | 29121            | 29120            | 29119            | 29121            | 29134            | 31494            | 31483            | 31474            | 31488            | 31480            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 3.13             | 3.13             | 3.14             | 3.14             | 3.20             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.30             | 3.30             | 3.30             | 3.30             | 3.30             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             |
|                  | 104°F<br>40.0°C          | TC                  | 22245            | 22248            | 22477            | 22684            | 23578            | 23696            | 23695            | 23702            | 23702            | 23787            | 24743            | 24742            | 24744            | 24746            | 24755            | 26754            | 26744            | 26736            | 26744            | 26743            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                  | 2.66             | 2.66             | 2.67             | 2.69             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.75             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             |
|                  | 110°F<br>43.0°C          | TC                  | 19755            | 19906            | 20673            | 20806            | 21694            | 21120            | 21128            | 21146            | 21165            | 21724            | 22111            | 22110            | 22119            | 22120            | 22158            | 23999            | 23992            | 23992            | 23994            | 24012            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.41             | 2.42             | 2.45             | 2.45             | 2.49             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             |
|                  | 115°F<br>46.0°C          | TC                  | 17673            | 18051            | 18756            | 18880            | 19714            | 18933            | 18939            | 18990            | 19017            | 19741            | 19842            | 19847            | 19853            | 19854            | 19929            | 21584            | 21575            | 21582            | 21587            | 21603            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.25             | 2.26             | 2.29             | 2.29             | 2.33             | 2.30             | 2.30             | 2.30             | 2.30             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 122°F<br>50.0°C          | TC                  | 14940            | 15782            | 16480            | 16604            | 17434            | 15950            | 15991            | 16501            | 16625            | 17453            | 16802            | 16806            | 16833            | 16851            | 17470            | 18427            | 18433            | 18449            | 18450            | 18448            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                  | 2.05             | 2.07             | 2.09             | 2.09             | 2.11             | 2.08             | 2.08             | 2.09             | 2.09             | 2.11             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.14             | 2.14             | 2.13             | 2.13             | 2.13             |

Table 14: COOLING PERFORMANCE 30K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324             | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 26210            | 26201            | 26194            | 26346            | 27122            | 27364            | 27349            | 27337            | 27335            | 27316            | 28181            | 28166            | 28148            | 28145            | 28125            | 29728            | 29720            | 29698            | 29690            | 29646            |
|                  |                          | S/T                 | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.10             | 3.10             | 3.10             | 3.09             | 3.08             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |
|                  | -4°F<br>-20.0°C          | TC                  | 28226            | 28217            | 28209            | 28373            | 29208            | 29469            | 29453            | 29440            | 29438            | 29417            | 30349            | 30333            | 30313            | 30310            | 30288            | 32014            | 32006            | 31982            | 31974            | 31926            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.21             | 3.21             | 3.21             | 3.20             | 3.19             | 3.18             | 3.18             | 3.19             | 3.19             | 3.19             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.19             | 3.19             | 3.19             | 3.19             | 3.19             |
|                  | 0°F<br>-17.8°C           | TC                  | 29158            | 29145            | 29258            | 29481            | 30298            | 30429            | 30406            | 30389            | 30386            | 30381            | 31322            | 31304            | 31275            | 31271            | 31243            | 33010            | 33000            | 33002            | 33005            | 33030            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.22             | 3.22             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.25             | 3.25             | 3.25             | 3.25             | 3.26             |
|                  | 5°F<br>-15.0°C           | TC                  | 30016            | 30043            | 30448            | 30587            | 31523            | 31443            | 31449            | 31453            | 31453            | 31608            | 32472            | 32469            | 32478            | 32479            | 32483            | 34412            | 34402            | 34402            | 34405            | 34424            |
|                  |                          | S/T                 | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.26             | 3.26             | 3.26             | 3.26             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             |
|                  | 14°F<br>-10.0°C          | TC                  | 33306            | 33294            | 33432            | 33724            | 34771            | 34979            | 34959            | 34942            | 34939            | 34920            | 36187            | 36170            | 36142            | 36137            | 36107            | 38463            | 38451            | 38423            | 38414            | 38356            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.19             | 3.19             | 3.19             | 3.19             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             |
|                  | 17°F<br>-8.3°C           | TC                  | 34442            | 34451            | 34873            | 35074            | 36203            | 36172            | 36175            | 36182            | 36183            | 36355            | 37325            | 37340            | 37364            | 37365            | 37375            | 39808            | 39795            | 39800            | 39807            | 39844            |
|                  |                          | S/T                 | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.13             | 3.14             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |
|                  | 23°F<br>-5.0°C           | TC                  | 34989            | 35038            | 35608            | 35783            | 36952            | 36785            | 36794            | 36799            | 36800            | 37018            | 38082            | 38081            | 38093            | 38094            | 38101            | 40537            | 40525            | 40526            | 40532            | 40560            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                          | PI                  | 2.91             | 2.91             | 2.92             | 2.92             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |
|                  | 35°F<br>1.7°C            | TC                  | 36572            | 36573            | 36643            | 36684            | 37627            | 38326            | 38321            | 38322            | 38324            | 38324            | 39558            | 39555            | 39551            | 39551            | 39555            | 41849            | 41839            | 41830            | 41836            | 41829            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 2.34             | 2.34             | 2.34             | 2.34             | 2.42             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.81             | 2.80             | 2.80             | 2.80             | 2.80             |
|                  | 41°F<br>5.0°C            | TC                  | 37926            | 37927            | 38032            | 38083            | 39164            | 39737            | 39732            | 39733            | 39734            | 39769            | 41008            | 41003            | 41000            | 41001            | 41005            | 43369            | 43358            | 43349            | 43354            | 43348            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                          | PI                  | 2.31             | 2.31             | 2.32             | 2.33             | 2.41             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             |
|                  | 47°F<br>8.3°C            | TC                  | 39278            | 39278            | 39429            | 39498            | 40713            | 41147            | 41141            | 41142            | 41142            | 41205            | 42457            | 42453            | 42449            | 42450            | 42452            | 44894            | 44882            | 44879            | 44878            | 44871            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 2.29             | 2.29             | 2.30             | 2.31             | 2.40             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.79             | 2.78             | 2.78             | 2.78             | 2.78             |
|                  | 50°F<br>10.0°C           | TC                  | 38300            | 38926            | 40227            | 40457            | 42007            | 40551            | 40575            | 40706            | 40759            | 42056            | 42148            | 42202            | 42226            | 42229            | 42420            | 45184            | 45206            | 45316            | 45328            | 45388            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             |
|                  | 59°F<br>15.0°C           | TC                  | 37550            | 38455            | 39808            | 40047            | 41659            | 39842            | 39859            | 40057            | 40134            | 41707            | 41496            | 41541            | 41558            | 41559            | 41834            | 44665            | 44677            | 44765            | 44775            | 44819            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 2.83             | 2.84             | 2.85             | 2.85             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                  | 68°F<br>20.0°C           | TC                  | 36838            | 38026            | 39425            | 39674            | 41342            | 39140            | 39153            | 39459            | 39716            | 41388            | 40844            | 40877            | 40889            | 40890            | 41355            | 44103            | 44117            | 44188            | 44196            | 44227            |
|                  |                          | S/T                 | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                  | 3.03             | 3.05             | 3.06             | 3.07             | 3.09             | 3.06             | 3.06             | 3.07             | 3.07             | 3.09             | 3.08             | 3.08             | 3.08             | 3.08             | 3.09             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
|                  | 77°F<br>25.0°C           | TC                  | 36057            | 37439            | 38891            | 39149            | 40879            | 38402            | 38420            | 38862            | 39195            | 40927            | 40155            | 40201            | 40220            | 40266            | 40964            | 43490            | 43530            | 43627            | 43638            | 43685            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 3.27             | 3.28             | 3.30             | 3.30             | 3.31             | 3.29             | 3.29             | 3.30             | 3.30             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.35             | 3.35             | 3.34             | 3.34             | 3.34             |

Table 14: COOLING PERFORMANCE 30K - DUCTED (Continued)

| AIRFLOW (CFM) | OUTDOOR DB °F (°C) | ID WB °F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|---------------|--------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|               |                    |               | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|               |                    | ID DB °F (°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324          | 82°F<br>27.8°C     | TC            | 35142            | 36632            | 38092            | 38352            | 40096            | 37462            | 37523            | 38138            | 38398            | 40141            | 39214            | 39267            | 39286            | 39348            | 40178            | 42535            | 42589            | 42696            | 42708            | 42758            |
|               |                    | S/T           | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|               |                    | PI            | 3.40             | 3.42             | 3.43             | 3.43             | 3.45             | 3.43             | 3.43             | 3.43             | 3.44             | 3.45             | 3.45             | 3.45             | 3.44             | 3.44             | 3.45             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|               | 86°F<br>30.0°C     | TC            | 33778            | 35342            | 36776            | 37030            | 38755            | 36008            | 36083            | 36820            | 37074            | 38786            | 37726            | 37771            | 37830            | 37864            | 38822            | 40969            | 41028            | 41124            | 41135            | 41177            |
|               |                    | S/T           | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|               |                    | PI            | 3.52             | 3.54             | 3.55             | 3.56             | 3.58             | 3.54             | 3.54             | 3.55             | 3.56             | 3.58             | 3.57             | 3.57             | 3.57             | 3.57             | 3.58             | 3.61             | 3.61             | 3.61             | 3.60             | 3.60             |
|               | 95°F<br>35.0°C     | TC            | 31113            | 31168            | 31838            | 32025            | 33281            | 33103            | 33111            | 33122            | 33124            | 33349            | 34532            | 34536            | 34554            | 34556            | 34572            | 37279            | 37265            | 37269            | 37267            | 37295            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|               |                    | PI            | 3.64             | 3.64             | 3.68             | 3.69             | 3.76             | 3.75             | 3.75             | 3.75             | 3.75             | 3.77             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |
|               | 104°F<br>40.0°C    | TC            | 26434            | 26529            | 27293            | 27454            | 28542            | 28126            | 28135            | 28142            | 28144            | 28515            | 29341            | 29346            | 29362            | 29364            | 29373            | 31673            | 31661            | 31668            | 31662            | 31692            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|               |                    | PI            | 3.10             | 3.10             | 3.15             | 3.16             | 3.22             | 3.19             | 3.19             | 3.19             | 3.19             | 3.21             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.40             | 3.40             | 3.40             | 3.40             | 3.40             |
|               | 110°F<br>43.0°C    | TC            | 23474            | 24109            | 25024            | 25186            | 26268            | 25077            | 25086            | 25195            | 25244            | 26297            | 26223            | 26238            | 26247            | 26247            | 26400            | 28424            | 28412            | 28440            | 28445            | 28466            |
|               |                    | S/T           | 0.89             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|               |                    | PI            | 2.80             | 2.83             | 2.87             | 2.87             | 2.92             | 2.87             | 2.87             | 2.87             | 2.88             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             |
|               | 115°F<br>46.0°C    | TC            | 21027            | 21819            | 22676            | 22829            | 23846            | 22459            | 22465            | 22661            | 22858            | 23874            | 23531            | 23552            | 23558            | 23559            | 23895            | 25537            | 25525            | 25565            | 25569            | 25582            |
|               |                    | S/T           | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.98             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.40             | 0.50             | 0.61             | 0.63             | 0.75             |
|               |                    | PI            | 2.61             | 2.64             | 2.67             | 2.68             | 2.72             | 2.67             | 2.66             | 2.67             | 2.68             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.72             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|               | 122°F<br>50.0°C    | TC            | 18034            | 19022            | 19869            | 20020            | 21025            | 18870            | 19018            | 19892            | 20042            | 21047            | 19872            | 19870            | 19974            | 20034            | 21065            | 21748            | 21791            | 21802            | 21802            | 21790            |
|               |                    | S/T           | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.80             | 0.98             | 1.00             | 1.00             | 1.00             | 0.64             | 0.81             | 0.95             | 0.98             | 1.00             | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|               |                    | PI            | 2.40             | 2.42             | 2.44             | 2.44             | 2.46             | 2.42             | 2.42             | 2.44             | 2.44             | 2.46             | 2.44             | 2.44             | 2.44             | 2.44             | 2.46             | 2.49             | 2.49             | 2.48             | 2.48             | 2.48             |
| 1618          | -22°F<br>-30.0°C   | TC            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | S/T           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | PI            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               | -13°F<br>-25.0°C   | TC            | 31152            | 31138            | 31582            | 31713            | 32586            | 32503            | 32476            | 32455            | 32452            | 32425            | 33474            | 33432            | 33401            | 33396            | 33364            | 35309            | 35300            | 35227            | 35214            | 35139            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.63             | 3.63             | 3.62             | 3.62             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             | 3.60             | 3.61             | 3.61             | 3.61             | 3.61             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             |
|               | -4°F<br>-20.0°C    | TC            | 33548            | 33533            | 34011            | 34152            | 35092            | 35003            | 34974            | 34952            | 34949            | 34920            | 36049            | 36004            | 35970            | 35965            | 35931            | 38025            | 38015            | 37937            | 37923            | 37842            |
|               |                    | S/T           | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.76             | 3.76             | 3.75             | 3.75             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             | 3.73             | 3.73             | 3.74             | 3.74             | 3.74             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             |
|               | 0°F<br>-17.8°C     | TC            | 34662            | 34641            | 35284            | 35431            | 36404            | 36148            | 36108            | 36080            | 36076            | 36439            | 37211            | 37158            | 37112            | 37106            | 37089            | 39212            | 39203            | 39200            | 39205            | 39230            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.78             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.83             | 3.83             | 3.83             | 3.83             | 3.84             |
|               | 5°F<br>-15.0°C     | TC            | 35656            | 35778            | 36596            | 36765            | 37898            | 37328            | 37337            | 37340            | 37378            | 37935            | 38521            | 38531            | 38539            | 38540            | 38592            | 40781            | 40769            | 40790            | 40794            | 40812            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 3.82             | 3.82             | 3.83             | 3.83             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.85             | 3.86             | 3.86             | 3.86             | 3.86             | 3.87             | 3.95             | 3.95             | 3.95             | 3.95             | 3.95             |
|               | 14°F<br>-10.0°C    | TC            | 39595            | 39575            | 40383            | 40572            | 41830            | 41561            | 41524            | 41496            | 41491            | 41880            | 42985            | 42931            | 42887            | 42880            | 42837            | 45706            | 45692            | 45605            | 45589            | 45492            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.74             | 3.74             | 3.74             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.72             | 3.72             | 3.72             | 3.73             | 3.73             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             |
|               | 17°F<br>-8.3°C     | TC            | 40809            | 40942            | 41888            | 42092            | 43460            | 42840            | 42858            | 42866            | 42902            | 43506            | 44302            | 44319            | 44336            | 44338            | 44393            | 47116            | 47104            | 47096            | 47105            | 47144            |
|               |                    | S/T           | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 3.68             | 3.68             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             |
|               | 23°F<br>-5.0°C     | TC            | 41564            | 41742            | 42822            | 43034            | 44452            | 43668            | 43681            | 43686            | 43743            | 44500            | 45175            | 45190            | 45202            | 45203            | 45276            | 48034            | 48019            | 48053            | 48060            | 48088            |
|               |                    | S/T           | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 3.41             | 3.42             | 3.43             | 3.43             | 3.45             | 3.44             | 3.44             | 3.44             | 3.44             | 3.45             | 3.46             | 3.46             | 3.46             | 3.46             | 3.47             | 3.53             | 3.53             | 3.53             | 3.53             | 3.53             |

Table 14: COOLING PERFORMANCE 30K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)      |                     |                     |                     |                     | 64.4°F(18.0°C)      |                     |                     |                     |                     | 67°F(19.4°C)        |                     |                     |                     |                     | 71.6°F(22.0°C)      |                     |                     |                     |                     |
|------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                  |                          |                     | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    |
|                  |                          |                     | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) |
| 1618             | 35°F<br>1.7°C            | TC                  | 43476               | 43478               | 43733               | 43855               | 45270               | 45508               | 45506               | 45510               | 45511               | 45632               | 46933               | 46930               | 46932               | 46933               | 46938               | 49576               | 49564               | 49561               | 49559               | 49563               |
|                  |                          | S/T                 | 0.78                | 0.88                | 0.97                | 0.99                | 1.00                | 0.63                | 0.73                | 0.82                | 0.83                | 0.93                | 0.54                | 0.63                | 0.72                | 0.73                | 0.83                | 0.39                | 0.46                | 0.54                | 0.56                | 0.65                |
|                  |                          | PI                  | 2.74                | 2.74                | 2.76                | 2.77                | 2.89                | 2.91                | 2.91                | 2.91                | 2.91                | 2.92                | 3.03                | 3.03                | 3.03                | 3.03                | 3.03                | 3.30                | 3.30                | 3.30                | 3.30                | 3.30                |
|                  | 41°F<br>5.0°C            | TC                  | 45084               | 45084               | 45443               | 45759               | 47111               | 47180               | 47179               | 47182               | 47182               | 47348               | 48652               | 48649               | 48652               | 48653               | 48656               | 51382               | 51369               | 51366               | 51364               | 51369               |
|                  |                          | S/T                 | 0.78                | 0.89                | 0.98                | 1.00                | 1.00                | 0.64                | 0.74                | 0.83                | 0.84                | 0.94                | 0.54                | 0.64                | 0.72                | 0.74                | 0.84                | 0.39                | 0.47                | 0.55                | 0.56                | 0.66                |
|                  |                          | PI                  | 2.71                | 2.71                | 2.74                | 2.77                | 2.88                | 2.88                | 2.88                | 2.88                | 2.88                | 2.90                | 3.02                | 3.02                | 3.02                | 3.02                | 3.02                | 3.29                | 3.28                | 3.28                | 3.28                | 3.28                |
|                  | 47°F<br>8.3°C            | TC                  | 46690               | 46721               | 47348               | 47559               | 48966               | 48855               | 48853               | 48855               | 48854               | 49080               | 50372               | 50368               | 50371               | 50371               | 50371               | 53192               | 53179               | 53175               | 53172               | 53178               |
|                  |                          | S/T                 | 0.79                | 0.90                | 1.00                | 1.00                | 1.00                | 0.64                | 0.75                | 0.84                | 0.85                | 0.96                | 0.54                | 0.65                | 0.73                | 0.75                | 0.85                | 0.39                | 0.47                | 0.55                | 0.57                | 0.67                |
|                  |                          | PI                  | 2.69                | 2.69                | 2.74                | 2.76                | 2.88                | 2.87                | 2.87                | 2.87                | 2.87                | 2.89                | 3.00                | 3.00                | 3.00                | 3.00                | 3.00                | 3.27                | 3.27                | 3.27                | 3.27                | 3.27                |
|                  | 50°F<br>10.0°C           | TC                  | 45565               | 46820               | 48400               | 48680               | 50567               | 48138               | 48164               | 48497               | 48650               | 50615               | 50015               | 50081               | 50107               | 50110               | 50592               | 53463               | 53604               | 53742               | 53758               | 53825               |
|                  |                          | S/T                 | 0.90                | 1.00                | 1.00                | 1.00                | 1.00                | 0.71                | 0.85                | 0.96                | 0.99                | 1.00                | 0.59                | 0.72                | 0.83                | 0.85                | 0.99                | 0.40                | 0.50                | 0.60                | 0.62                | 0.74                |
|                  |                          | PI                  | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.08                | 3.08                | 3.08                |
|                  | 59°F<br>15.0°C           | TC                  | 44701               | 46269               | 47911               | 48203               | 50164               | 47295               | 47360               | 47897               | 48254               | 50214               | 49246               | 49296               | 49313               | 49385               | 50255               | 52881               | 52987               | 53092               | 53104               | 53148               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.73                | 0.86                | 1.00                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 3.33                | 3.34                | 3.35                | 3.35                | 3.36                | 3.35                | 3.35                | 3.35                | 3.35                | 3.36                | 3.36                | 3.36                | 3.36                | 3.36                | 3.36                | 3.38                | 3.38                | 3.38                | 3.38                | 3.37                |
|                  | 68°F<br>20.0°C           | TC                  | 43820               | 45691               | 47385               | 47686               | 49710               | 46391               | 46495               | 47437               | 47738               | 49759               | 48396               | 48433               | 48520               | 48562               | 49800               | 52147               | 52244               | 52326               | 52334               | 52362               |
|                  |                          | S/T                 | 0.95                | 1.00                | 1.00                | 1.00                | 1.00                | 0.74                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.89                | 1.00                | 0.40                | 0.51                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 3.57                | 3.59                | 3.61                | 3.61                | 3.63                | 3.60                | 3.60                | 3.61                | 3.61                | 3.64                | 3.62                | 3.62                | 3.62                | 3.62                | 3.64                | 3.67                | 3.67                | 3.67                | 3.67                | 3.67                |
|                  | 77°F<br>25.0°C           | TC                  | 42911               | 44977               | 46737               | 47048               | 49151               | 45491               | 45635               | 46788               | 47101               | 49200               | 47551               | 47604               | 47726               | 47779               | 49241               | 51357               | 51513               | 51632               | 51645               | 51693               |
|                  |                          | S/T                 | 0.97                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.90                | 1.00                | 1.00                | 1.00                | 0.61                | 0.76                | 0.88                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.79                |
|                  |                          | PI                  | 3.84                | 3.86                | 3.88                | 3.88                | 3.90                | 3.87                | 3.87                | 3.88                | 3.88                | 3.90                | 3.89                | 3.89                | 3.89                | 3.89                | 3.90                | 3.94                | 3.93                | 3.93                | 3.93                | 3.93                |
|                  | 82°F<br>27.8°C           | TC                  | 41854               | 43990               | 45765               | 46075               | 48185               | 44352               | 44523               | 45804               | 46126               | 48235               | 46415               | 46474               | 46618               | 46676               | 48278               | 50184               | 50373               | 50504               | 50518               | 50573               |
|                  |                          | S/T                 | 0.99                | 1.00                | 1.00                | 1.00                | 1.00                | 0.76                | 0.91                | 1.00                | 1.00                | 1.00                | 0.62                | 0.77                | 0.89                | 0.92                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.80                |
|                  |                          | PI                  | 4.00                | 4.02                | 4.04                | 4.04                | 4.06                | 4.03                | 4.03                | 4.04                | 4.04                | 4.06                | 4.05                | 4.05                | 4.05                | 4.05                | 4.06                | 4.10                | 4.09                | 4.09                | 4.09                | 4.08                |
|                  | 86°F<br>30.0°C           | TC                  | 40446               | 42465               | 44202               | 44510               | 46583               | 42654               | 42850               | 44251               | 44561               | 46631               | 44675               | 44726               | 44890               | 44955               | 46671               | 48365               | 48552               | 48668               | 48679               | 48725               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.77                | 0.93                | 1.00                | 1.00                | 1.00                | 0.62                | 0.78                | 0.91                | 0.93                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.81                |
|                  |                          | PI                  | 4.14                | 4.16                | 4.18                | 4.18                | 4.21                | 4.16                | 4.17                | 4.18                | 4.18                | 4.21                | 4.19                | 4.19                | 4.19                | 4.19                | 4.21                | 4.25                | 4.24                | 4.24                | 4.23                | 4.23                |
|                  | 95°F<br>35.0°C           | TC                  | 36962               | 37161               | 38362               | 38590               | 40115               | 39283               | 39305               | 39318               | 39364               | 40165               | 40968               | 40977               | 41002               | 41006               | 41074               | 44145               | 44128               | 44137               | 44150               | 44209               |
|                  |                          | S/T                 | 0.83                | 0.95                | 1.00                | 1.00                | 1.00                | 0.66                | 0.78                | 0.88                | 0.89                | 1.00                | 0.56                | 0.67                | 0.76                | 0.78                | 0.88                | 0.39                | 0.48                | 0.57                | 0.58                | 0.68                |
|                  |                          | PI                  | 4.28                | 4.29                | 4.35                | 4.37                | 4.45                | 4.41                | 4.41                | 4.41                | 4.41                | 4.46                | 4.51                | 4.51                | 4.51                | 4.51                | 4.51                | 4.69                | 4.69                | 4.69                | 4.69                | 4.70                |
|                  | 104°F<br>40.0°C          | TC                  | 31406               | 31693               | 32886               | 33084               | 34404               | 33384               | 33403               | 33462               | 33498               | 34446               | 34809               | 34823               | 34841               | 34843               | 34942               | 37519               | 37504               | 37522               | 37535               | 37574               |
|                  |                          | S/T                 | 0.85                | 0.98                | 1.00                | 1.00                | 1.00                | 0.68                | 0.80                | 0.90                | 0.92                | 1.00                | 0.56                | 0.68                | 0.78                | 0.80                | 0.91                | 0.39                | 0.48                | 0.58                | 0.59                | 0.70                |
|                  |                          | PI                  | 3.64                | 3.66                | 3.72                | 3.73                | 3.81                | 3.75                | 3.75                | 3.76                | 3.76                | 3.81                | 3.84                | 3.83                | 3.83                | 3.83                | 3.84                | 3.99                | 3.99                | 3.99                | 3.99                | 3.99                |
|                  | 110°F<br>43.0°C          | TC                  | 27965               | 29039               | 30147               | 30342               | 31657               | 29773               | 29781               | 30114               | 30378               | 31690               | 31113               | 31137               | 31145               | 31168               | 31717               | 33676               | 33678               | 33730               | 33735               | 33754               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.72                | 0.87                | 0.99                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 3.30                | 3.34                | 3.39                | 3.40                | 3.45                | 3.37                | 3.37                | 3.39                | 3.40                | 3.45                | 3.43                | 3.43                | 3.43                | 3.43                | 3.45                | 3.54                | 3.54                | 3.54                | 3.54                | 3.54                |
|                  | 115°F<br>46.0°C          | TC                  | 25067               | 26274               | 27313               | 27516               | 28728               | 26657               | 26710               | 27344               | 27551               | 28757               | 27900               | 27917               | 27955               | 27982               | 28782               | 30252               | 30274               | 30316               | 30320               | 30330               |
|                  |                          | S/T                 | 0.96                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 3.08                | 3.13                | 3.16                | 3.18                | 3.22                | 3.14                | 3.14                | 3.17                | 3.18                | 3.22                | 3.19                | 3.19                | 3.19                | 3.19                | 3.22                | 3.28                | 3.28                | 3.28                | 3.28                | 3.28                |
|                  | 122°F<br>50.0°C          | TC                  | 21461               | 22645               | 23658               | 23835               | 25039               | 22145               | 22669               | 23685               | 23862               | 25063               | 23321               | 23315               | 23702               | 23881               | 25078               | 25465               | 25564               | 25570               | 25568               | 25601               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.84                | 1.00                | 1.00                | 1.00                | 1.00                | 0.67                | 0.85                | 1.00                | 1.00                | 1.00                | 0.41                | 0.55                | 0.69                | 0.72                | 0.88                |
|                  |                          | PI                  | 2.82                | 2.85                | 2.87                | 2.87                | 2.90                | 2.84                | 2.85                | 2.87                | 2.87                | 2.90                | 2.86                | 2.86                | 2.87                | 2.87                | 2.90                | 2.93                | 2.92                | 2.91                | 2.91                | 2.91                |

## COOLING PERFORMANCE 36K

Table 15: COOLING PERFORMANCE 36K - DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735              | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 18526            | 18524            | 18521            | 18521            | 18517            | 19389            | 19383            | 19380            | 19380            | 19376            | 20000            | 19995            | 19990            | 19989            | 19985            | 21147            | 21141            | 21136            | 21135            | 21129            |
|                  |                          | S/T                 | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                  | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             |
|                  | -4°F<br>-20.0°C          | TC                  | 19951            | 19948            | 19946            | 19945            | 19942            | 20880            | 20875            | 20871            | 20871            | 20867            | 21538            | 21533            | 21528            | 21527            | 21522            | 22773            | 22768            | 22762            | 22761            | 22754            |
|                  |                          | S/T                 | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                  | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.38             | 2.38             | 2.38             | 2.38             | 2.38             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                  | 0°F<br>-17.8°C           | TC                  | 20601            | 20596            | 20593            | 20593            | 20587            | 21550            | 21546            | 21541            | 21540            | 21534            | 22223            | 22216            | 22211            | 22211            | 22204            | 23476            | 23470            | 23466            | 23465            | 23455            |
|                  |                          | S/T                 | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                  | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |
|                  | 5°F<br>-15.0°C           | TC                  | 21246            | 21247            | 21247            | 21247            | 21564            | 22308            | 22304            | 22303            | 22303            | 22305            | 23070            | 23069            | 23066            | 23065            | 23067            | 24533            | 24526            | 24521            | 24520            | 24520            |
|                  |                          | S/T                 | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             |
|                  | 14°F<br>-10.0°C          | TC                  | 23560            | 23557            | 23554            | 23553            | 23668            | 24797            | 24791            | 24786            | 24786            | 24781            | 25680            | 25674            | 25668            | 25667            | 25662            | 27359            | 27351            | 27344            | 27343            | 27334            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                  |                          | PI                  | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                  | 17°F<br>-8.3°C           | TC                  | 24346            | 24341            | 24338            | 24337            | 24688            | 25623            | 25617            | 25612            | 25611            | 25611            | 26540            | 26539            | 26535            | 26535            | 26539            | 28332            | 28324            | 28318            | 28316            | 28318            |
|                  |                          | S/T                 | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 2.35             | 2.35             | 2.35             | 2.35             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                  | 23°F<br>-5.0°C           | TC                  | 24767            | 24768            | 24768            | 24784            | 25236            | 26100            | 26095            | 26094            | 26095            | 26098            | 27059            | 27057            | 27053            | 27053            | 27055            | 28903            | 28895            | 28888            | 28887            | 28887            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             |
|                  | 35°F<br>1.7°C            | TC                  | 25813            | 25811            | 25809            | 25809            | 25845            | 27150            | 27148            | 27145            | 27144            | 27142            | 28096            | 28090            | 28089            | 28088            | 28084            | 29865            | 29858            | 29853            | 29852            | 29850            |
|                  |                          | S/T                 | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                  |                          | PI                  | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                  | 41°F<br>5.0°C            | TC                  | 26777            | 26774            | 26773            | 26772            | 26835            | 28153            | 28150            | 28147            | 28146            | 28144            | 29126            | 29120            | 29118            | 29118            | 29112            | 30948            | 30941            | 30935            | 30934            | 30932            |
|                  |                          | S/T                 | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                  | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                  | 47°F<br>8.3°C            | TC                  | 27738            | 27734            | 27733            | 27732            | 27829            | 29153            | 29150            | 29146            | 29146            | 29144            | 30156            | 30149            | 30147            | 30146            | 30142            | 32028            | 32021            | 32015            | 32014            | 32011            |
|                  |                          | S/T                 | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                  | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                  | 50°F<br>10.0°C           | TC                  | 27140            | 27144            | 27394            | 27617            | 28642            | 28782            | 28788            | 28796            | 28797            | 28903            | 29973            | 29976            | 29989            | 29991            | 30003            | 32281            | 32269            | 32274            | 32271            | 32300            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                  | 59°F<br>15.0°C           | TC                  | 26581            | 26622            | 27146            | 27305            | 28373            | 28272            | 28278            | 28283            | 28284            | 28458            | 29509            | 29502            | 29514            | 29515            | 29524            | 31881            | 31868            | 31871            | 31869            | 31893            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             |
|                  | 68°F<br>20.0°C           | TC                  | 26043            | 26128            | 26866            | 27030            | 28136            | 27772            | 27777            | 27781            | 27781            | 28115            | 29034            | 29028            | 29039            | 29040            | 29046            | 31462            | 31448            | 31449            | 31448            | 31472            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.26             | 2.26             | 2.27             | 2.27             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.33             | 2.33             | 2.32             | 2.32             | 2.32             |
|                  | 77°F<br>25.0°C           | TC                  | 25466            | 25592            | 26470            | 26643            | 27790            | 27248            | 27257            | 27263            | 27289            | 27830            | 28551            | 28549            | 28564            | 28566            | 28600            | 31058            | 31043            | 31047            | 31048            | 31084            |
|                  |                          | S/T                 | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.43             | 2.43             | 2.44             | 2.44             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 15: COOLING PERFORMANCE 36K - DUCTED (Continued)

| AIRFLOW (CFM) | OUTDOOR DB °F (°C) | ID WB °F (°C) | 60.8°F(16.0°C) |        |        |        |        | 64.4°F(18.0°C) |        |        |        |        | 67°F(19.4°C) |        |        |        |        | 71.6°F(22.0°C) |        |        |        |        |
|---------------|--------------------|---------------|----------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|--------------|--------|--------|--------|--------|----------------|--------|--------|--------|--------|
|               |                    |               | 73.4°F         | 77.0°F | 80.0°F | 80.6°F | 84.2°F | 73.4°F         | 77.0°F | 80.0°F | 80.6°F | 84.2°F | 73.4°F       | 77.0°F | 80.0°F | 80.6°F | 84.2°F | 73.4°F         | 77.0°F | 80.0°F | 80.6°F | 84.2°F |
|               |                    |               | 23.0°C         | 25.0°C | 26.7°C | 27.0°C | 29.0°C | 23.0°C         | 25.0°C | 26.7°C | 27.0°C | 29.0°C | 23.0°C       | 25.0°C | 26.7°C | 27.0°C | 29.0°C | 23.0°C         | 25.0°C | 26.7°C | 27.0°C | 29.0°C |
| 735           | 82°F<br>27.8°C     | TC            | 24800          | 24960  | 25917  | 26089  | 27242  | 26580          | 26593  | 26615  | 26639  | 27281  | 27883        | 27885  | 27901  | 27903  | 27951  | 30392          | 30377  | 30383  | 30386  | 30426  |
|               |                    | S/T           | 0.84           | 0.97   | 1.00   | 1.00   | 1.00   | 0.67           | 0.79   | 0.88   | 0.90   | 1.00   | 0.56         | 0.67   | 0.77   | 0.78   | 0.89   | 0.39           | 0.48   | 0.57   | 0.58   | 0.68   |
|               |                    | PI            | 2.53           | 2.53   | 2.54   | 2.55   | 2.56   | 2.55           | 2.55   | 2.55   | 2.55   | 2.56   | 2.57         | 2.57   | 2.57   | 2.57   | 2.57   | 2.59           | 2.59   | 2.59   | 2.59   | 2.59   |
|               | 86°F<br>30.0°C     | TC            | 23835          | 24043  | 25045  | 25214  | 26348  | 25577          | 25588  | 25624  | 25649  | 26386  | 26849        | 26853  | 26867  | 26868  | 26929  | 29300          | 29286  | 29291  | 29298  | 29334  |
|               |                    | S/T           | 0.85           | 0.98   | 1.00   | 1.00   | 1.00   | 0.67           | 0.80   | 0.89   | 0.91   | 1.00   | 0.56         | 0.68   | 0.77   | 0.79   | 0.90   | 0.39           | 0.48   | 0.57   | 0.59   | 0.69   |
|               |                    | PI            | 2.62           | 2.62   | 2.63   | 2.64   | 2.65   | 2.64           | 2.64   | 2.64   | 2.64   | 2.65   | 2.66         | 2.66   | 2.66   | 2.66   | 2.66   | 2.69           | 2.69   | 2.69   | 2.69   | 2.69   |
|               | 95°F<br>35.0°C     | TC            | 22011          | 22010  | 22012  | 22037  | 22601  | 23484          | 23479  | 23477  | 23477  | 23482  | 24547        | 24545  | 24540  | 24539  | 24540  | 26601          | 26592  | 26584  | 26583  | 26583  |
|               |                    | S/T           | 0.74           | 0.83   | 0.91   | 0.92   | 1.00   | 0.61           | 0.69   | 0.77   | 0.78   | 0.87   | 0.52         | 0.60   | 0.67   | 0.69   | 0.77   | 0.39           | 0.47   | 0.52   | 0.53   | 0.61   |
|               |                    | PI            | 2.71           | 2.71   | 2.71   | 2.71   | 2.75   | 2.80           | 2.80   | 2.80   | 2.80   | 2.80   | 2.86         | 2.86   | 2.86   | 2.86   | 2.86   | 2.98           | 2.98   | 2.98   | 2.98   | 2.98   |
|               | 104°F<br>40.0°C    | TC            | 18707          | 18707  | 18741  | 18767  | 19393  | 19957          | 19952  | 19952  | 19952  | 19956  | 20859        | 20857  | 20852  | 20852  | 20855  | 22600          | 22592  | 22586  | 22585  | 22585  |
|               |                    | S/T           | 0.75           | 0.85   | 0.93   | 0.95   | 1.00   | 0.61           | 0.71   | 0.78   | 0.80   | 0.89   | 0.52         | 0.61   | 0.69   | 0.70   | 0.79   | 0.39           | 0.45   | 0.52   | 0.54   | 0.62   |
|               |                    | PI            | 2.31           | 2.31   | 2.31   | 2.31   | 2.35   | 2.38           | 2.38   | 2.38   | 2.38   | 2.38   | 2.43         | 2.43   | 2.43   | 2.43   | 2.43   | 2.53           | 2.53   | 2.53   | 2.53   | 2.53   |
|               | 110°F<br>43.0°C    | TC            | 16617          | 16641  | 17015  | 17125  | 17846  | 17793          | 17791  | 17795  | 17795  | 17897  | 18640        | 18638  | 18640  | 18641  | 18646  | 20275          | 20267  | 20266  | 20266  | 20265  |
|               |                    | S/T           | 0.80           | 0.91   | 1.00   | 1.00   | 1.00   | 0.64           | 0.75   | 0.84   | 0.86   | 0.96   | 0.54         | 0.65   | 0.73   | 0.75   | 0.85   | 0.39           | 0.47   | 0.55   | 0.56   | 0.66   |
|               |                    | PI            | 2.09           | 2.09   | 2.10   | 2.11   | 2.14   | 2.14           | 2.14   | 2.14   | 2.14   | 2.14   | 2.17         | 2.17   | 2.17   | 2.17   | 2.17   | 2.24           | 2.24   | 2.24   | 2.24   | 2.24   |
|               | 115°F<br>46.0°C    | TC            | 14868          | 14925  | 15435  | 15535  | 16216  | 15948          | 15949  | 15952  | 15952  | 16240  | 16728        | 16726  | 16731  | 16732  | 16733  | 18231          | 18223  | 18221  | 18220  | 18228  |
|               |                    | S/T           | 0.83           | 0.95   | 1.00   | 1.00   | 1.00   | 0.66           | 0.77   | 0.87   | 0.89   | 1.00   | 0.55         | 0.66   | 0.75   | 0.77   | 0.88   | 0.39           | 0.47   | 0.56   | 0.57   | 0.67   |
|               |                    | PI            | 1.95           | 1.95   | 1.97   | 1.98   | 2.00   | 1.99           | 1.99   | 1.99   | 1.99   | 2.00   | 2.02         | 2.02   | 2.02   | 2.02   | 2.02   | 2.08           | 2.08   | 2.08   | 2.08   | 2.08   |
|               | 122°F<br>50.0°C    | TC            | 12477          | 13016  | 13588  | 13686  | 14364  | 13456          | 13456  | 13574  | 13705  | 14384  | 14181        | 14185  | 14186  | 14185  | 14398  | 15585          | 15576  | 15587  | 15588  | 15591  |
|               |                    | S/T           | 0.93           | 1.00   | 1.00   | 1.00   | 1.00   | 0.72           | 0.86   | 0.99   | 1.00   | 1.00   | 0.59         | 0.73   | 0.84   | 0.86   | 1.00   | 0.39           | 0.50   | 0.61   | 0.62   | 0.75   |
|               |                    | PI            | 1.78           | 1.79   | 1.81   | 1.81   | 1.82   | 1.80           | 1.80   | 1.80   | 1.81   | 1.82   | 1.82         | 1.82   | 1.82   | 1.82   | 1.82   | 1.85           | 1.85   | 1.85   | 1.85   | 1.85   |
| 1029          | -22°F<br>-30.0°C   | TC            |                |        |        |        |        |                |        |        |        |        |              |        |        |        |        |                |        |        |        |        |
|               |                    | S/T           |                |        |        |        |        |                |        |        |        |        |              |        |        |        |        |                |        |        |        |        |
|               |                    | PI            |                |        |        |        |        |                |        |        |        |        |              |        |        |        |        |                |        |        |        |        |
|               | -13°F<br>-25.0°C   | TC            | 22041          | 22036  | 22032  | 22031  | 22484  | 23033          | 23027  | 23021  | 23020  | 23012  | 23737        | 23729  | 23721  | 23719  | 23709  | 25056          | 25050  | 25040  | 25039  | 25023  |
|               |                    | S/T           | 0.75           | 0.84   | 0.92   | 0.93   | 1.00   | 0.61           | 0.70   | 0.78   | 0.79   | 0.88   | 0.52         | 0.61   | 0.69   | 0.70   | 0.79   | 0.38           | 0.46   | 0.53   | 0.54   | 0.62   |
|               |                    | PI            | 2.67           | 2.67   | 2.67   | 2.67   | 2.66   | 2.64           | 2.64   | 2.65   | 2.65   | 2.65   | 2.64         | 2.64   | 2.64   | 2.64   | 2.64   | 2.64           | 2.64   | 2.64   | 2.64   | 2.64   |
|               | -4°F<br>-20.0°C    | TC            | 23737          | 23731  | 23727  | 23726  | 24213  | 24805          | 24798  | 24791  | 24790  | 24782  | 25563        | 25554  | 25546  | 25544  | 25532  | 26984          | 26977  | 26966  | 26965  | 26947  |
|               |                    | S/T           | 0.75           | 0.84   | 0.92   | 0.94   | 1.00   | 0.61           | 0.71   | 0.78   | 0.79   | 0.88   | 0.53         | 0.61   | 0.69   | 0.70   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |
|               |                    | PI            | 2.76           | 2.76   | 2.76   | 2.77   | 2.75   | 2.74           | 2.74   | 2.74   | 2.74   | 2.74   | 2.73         | 2.73   | 2.73   | 2.73   | 2.73   | 2.73           | 2.73   | 2.73   | 2.73   | 2.73   |
|               | 0°F<br>-17.8°C     | TC            | 24513          | 24506  | 24500  | 24499  | 25110  | 25606          | 25597  | 25587  | 25585  | 25574  | 26378        | 26368  | 26356  | 26354  | 26338  | 27815          | 27809  | 27806  | 27804  | 27807  |
|               |                    | S/T           | 0.75           | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |
|               |                    | PI            | 2.79           | 2.79   | 2.79   | 2.79   | 2.78   | 2.77           | 2.77   | 2.77   | 2.77   | 2.77   | 2.77         | 2.77   | 2.77   | 2.77   | 2.77   | 2.79           | 2.79   | 2.79   | 2.79   | 2.79   |
|               | 5°F<br>-15.0°C     | TC            | 25258          | 25260  | 25339  | 25375  | 26117  | 26488          | 26487  | 26490  | 26491  | 26523  | 27370        | 27368  | 27370  | 27371  | 27376  | 29052          | 29044  | 29044  | 29043  | 29045  |
|               |                    | S/T           | 0.76           | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |
|               |                    | PI            | 2.81           | 2.81   | 2.81   | 2.81   | 2.81   | 2.81           | 2.81   | 2.81   | 2.81   | 2.81   | 2.82         | 2.82   | 2.82   | 2.82   | 2.83   | 2.87           | 2.87   | 2.87   | 2.87   | 2.87   |
|               | 14°F<br>-10.0°C    | TC            | 28024          | 28018  | 28012  | 28011  | 28807  | 29455          | 29447  | 29438  | 29437  | 29427  | 30479        | 30469  | 30458  | 30456  | 30442  | 32424          | 32415  | 32402  | 32401  | 32380  |
|               |                    | S/T           | 0.75           | 0.85   | 0.93   | 0.95   | 1.00   | 0.62           | 0.71   | 0.79   | 0.80   | 0.89   | 0.53         | 0.62   | 0.69   | 0.71   | 0.79   | 0.39           | 0.46   | 0.53   | 0.54   | 0.63   |
|               |                    | PI            | 2.74           | 2.75   | 2.75   | 2.75   | 2.74   | 2.73           | 2.73   | 2.73   | 2.73   | 2.73   | 2.72         | 2.72   | 2.72   | 2.72   | 2.72   | 2.72           | 2.72   | 2.72   | 2.72   | 2.72   |
|               | 17°F<br>-8.3°C     | TC            | 28939          | 28930  | 29006  | 29047  | 29917  | 30417          | 30407  | 30414  | 30415  | 30447  | 31483        | 31483  | 31487  | 31490  | 31499  | 33548          | 33538  | 33542  | 33540  | 33547  |
|               |                    | S/T           | 0.76           | 0.86   | 0.94   | 0.96   | 1.00   | 0.62           | 0.72   | 0.80   | 0.81   | 0.90   | 0.53         | 0.62   | 0.70   | 0.71   | 0.80   | 0.39           | 0.46   | 0.53   | 0.55   | 0.63   |
|               |                    | PI            | 2.70           | 2.70   | 2.70   | 2.70   | 2.69   | 2.69           | 2.69   | 2.69   | 2.69   | 2.69   | 2.69         | 2.69   | 2.69   | 2.69   | 2.69   | 2.70           | 2.70   | 2.70   | 2.70   | 2.70   |
|               | 23°F<br>-5.0°C     | TC            | 29445          | 29447  | 29567  | 29620  | 30593  | 30990          | 30989  | 30994  | 30995  | 31045  | 32100        | 32099  | 32102  | 32103  | 32110  | 34226          | 34216  | 34217  | 34216  | 34221  |
|               |                    | S/T           | 0.77           | 0.87   | 0.95   | 0.97   | 1.00   | 0.62           | 0.72   | 0.80   | 0.82   | 0.91   | 0.53         | 0.63   | 0.71   | 0.72   | 0.81   | 0.39           | 0.46   | 0.54   | 0.55   | 0.64   |
|               |                    | PI            | 2.51           | 2.51   | 2.51   | 2.51   | 2.51   | 2.52           | 2.52   | 2.52   | 2.52   | 2.52   | 2.53         | 2.53   | 2.53   | 2.53   | 2.53   | 2.57           | 2.57   | 2.57   | 2.57   | 2.57   |

Table 15: COOLING PERFORMANCE 36K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1029             | 35°F<br>1.7°C            | TC                  | 30738            | 30736            | 30736            | 30736            | 31132            | 32266            | 32260            | 32258            | 32258            | 32259            | 33339            | 33336            | 33331            | 33330            | 33329            | 35343            | 35334            | 35328            | 35326            | 35325            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                  | 2.01             | 2.01             | 2.01             | 2.01             | 2.04             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             |
|                  | 41°F<br>5.0°C            | TC                  | 31801            | 31878            | 31878            | 31887            | 32413            | 33454            | 33448            | 33445            | 33446            | 33447            | 34561            | 34558            | 34552            | 34551            | 34550            | 36625            | 36616            | 36609            | 36607            | 36605            |
|                  |                          | S/T                 | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 1.98             | 1.99             | 1.99             | 1.99             | 2.03             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 47°F<br>8.3°C            | TC                  | 33020            | 33019            | 33018            | 33051            | 33701            | 34641            | 34635            | 34632            | 34632            | 34633            | 35782            | 35779            | 35773            | 35772            | 35772            | 37908            | 37899            | 37892            | 37891            | 37888            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                  | 1.97             | 1.97             | 1.97             | 1.97             | 2.02             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             |
|                  | 50°F<br>10.0°C           | TC                  | 32244            | 32381            | 33295            | 33484            | 34749            | 34158            | 34179            | 34188            | 34223            | 34793            | 35544            | 35564            | 35585            | 35588            | 35640            | 38192            | 38177            | 38222            | 38232            | 38284            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.25             | 2.25             |
|                  | 59°F<br>15.0°C           | TC                  | 31582            | 31808            | 32932            | 33129            | 34445            | 33559            | 33574            | 33625            | 33656            | 34489            | 34987            | 35005            | 35022            | 35024            | 35109            | 37734            | 37718            | 37755            | 37763            | 37803            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.43             | 2.43             | 2.44             | 2.44             | 2.45             | 2.45             | 2.44             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             |
|                  | 68°F<br>20.0°C           | TC                  | 30942            | 31462            | 32605            | 32808            | 34171            | 32967            | 32980            | 33071            | 33111            | 34215            | 34429            | 34447            | 34458            | 34460            | 34594            | 37245            | 37229            | 37265            | 37272            | 37303            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.61             | 2.61             | 2.63             | 2.63             | 2.64             | 2.63             | 2.63             | 2.63             | 2.63             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             |
|                  | 77°F<br>25.0°C           | TC                  | 30256            | 30962            | 32148            | 32359            | 33774            | 32348            | 32363            | 32487            | 32540            | 33817            | 33848            | 33878            | 33894            | 33897            | 34072            | 36752            | 36735            | 36793            | 36802            | 36844            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                  | 2.80             | 2.81             | 2.82             | 2.83             | 2.84             | 2.83             | 2.83             | 2.83             | 2.83             | 2.84             | 2.84             | 2.84             | 2.84             | 2.84             | 2.84             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                  | 82°F<br>27.8°C           | TC                  | 29488            | 30289            | 31482            | 31693            | 33114            | 31555            | 31572            | 31724            | 31787            | 33159            | 33055            | 33090            | 33108            | 33110            | 33318            | 35958            | 35964            | 36010            | 36020            | 36066            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                  | 2.92             | 2.93             | 2.94             | 2.94             | 2.96             | 2.94             | 2.94             | 2.94             | 2.95             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             |
|                  | 86°F<br>30.0°C           | TC                  | 28360            | 29254            | 30428            | 30635            | 32032            | 30367            | 30382            | 30563            | 30644            | 32074            | 31832            | 31865            | 31880            | 31883            | 32129            | 34669            | 34671            | 34722            | 34731            | 34771            |
|                  |                          | S/T                 | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                  | 3.02             | 3.03             | 3.04             | 3.05             | 3.06             | 3.05             | 3.04             | 3.05             | 3.05             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             |
|                  | 95°F<br>35.0°C           | TC                  | 26179            | 26184            | 26328            | 26396            | 27484            | 27890            | 27887            | 27894            | 27895            | 27945            | 29121            | 29120            | 29119            | 29121            | 29134            | 31494            | 31483            | 31474            | 31488            | 31480            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 3.13             | 3.13             | 3.14             | 3.14             | 3.20             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.30             | 3.30             | 3.30             | 3.30             | 3.30             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             |
|                  | 104°F<br>40.0°C          | TC                  | 22245            | 22248            | 22477            | 22684            | 23578            | 23696            | 23695            | 23702            | 23702            | 23787            | 24743            | 24742            | 24744            | 24746            | 24755            | 26754            | 26744            | 26736            | 26744            | 26743            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                  | 2.66             | 2.66             | 2.67             | 2.69             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.75             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             |
|                  | 110°F<br>43.0°C          | TC                  | 19755            | 19906            | 20673            | 20806            | 21694            | 21120            | 21128            | 21146            | 21165            | 21724            | 22111            | 22110            | 22119            | 22120            | 22158            | 23999            | 23992            | 23992            | 23994            | 24012            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 2.41             | 2.42             | 2.45             | 2.45             | 2.49             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             |
|                  | 115°F<br>46.0°C          | TC                  | 17673            | 18051            | 18756            | 18880            | 19714            | 18933            | 18939            | 18990            | 19017            | 19741            | 19842            | 19847            | 19853            | 19854            | 19929            | 21584            | 21575            | 21582            | 21587            | 21603            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.25             | 2.26             | 2.29             | 2.29             | 2.33             | 2.30             | 2.30             | 2.30             | 2.30             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                  | 122°F<br>50.0°C          | TC                  | 14940            | 15782            | 16480            | 16604            | 17434            | 15950            | 15991            | 16501            | 16625            | 17453            | 16802            | 16806            | 16833            | 16851            | 17470            | 18427            | 18433            | 18449            | 18450            | 18448            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                  | 2.05             | 2.07             | 2.09             | 2.09             | 2.11             | 2.08             | 2.08             | 2.09             | 2.09             | 2.11             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.14             | 2.14             | 2.13             | 2.13             | 2.13             |

Table 15: COOLING PERFORMANCE 36K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324             | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 26210            | 26201            | 26194            | 26346            | 27122            | 27364            | 27349            | 27337            | 27335            | 27316            | 28181            | 28166            | 28148            | 28145            | 28125            | 29728            | 29720            | 29698            | 29690            | 29646            |
|                  |                          | S/T                 | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.10             | 3.10             | 3.10             | 3.09             | 3.08             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |
|                  | -4°F<br>-20.0°C          | TC                  | 28226            | 28217            | 28209            | 28373            | 29208            | 29469            | 29453            | 29440            | 29438            | 29417            | 30349            | 30333            | 30313            | 30310            | 30288            | 32014            | 32006            | 31982            | 31974            | 31926            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.21             | 3.21             | 3.21             | 3.20             | 3.19             | 3.18             | 3.18             | 3.19             | 3.19             | 3.19             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.19             | 3.19             | 3.19             | 3.19             | 3.19             |
|                  | 0°F<br>-17.8°C           | TC                  | 29158            | 29145            | 29258            | 29481            | 30298            | 30429            | 30406            | 30389            | 30386            | 30381            | 31322            | 31304            | 31275            | 31271            | 31243            | 33010            | 33000            | 33002            | 33005            | 33030            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.22             | 3.22             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.25             | 3.25             | 3.25             | 3.25             | 3.26             |
|                  | 5°F<br>-15.0°C           | TC                  | 30016            | 30043            | 30448            | 30587            | 31523            | 31443            | 31449            | 31453            | 31453            | 31608            | 32472            | 32469            | 32478            | 32479            | 32483            | 34412            | 34402            | 34402            | 34405            | 34424            |
|                  |                          | S/T                 | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.26             | 3.26             | 3.26             | 3.26             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             |
|                  | 14°F<br>-10.0°C          | TC                  | 33306            | 33294            | 33432            | 33724            | 34771            | 34979            | 34959            | 34942            | 34939            | 34920            | 36187            | 36170            | 36142            | 36137            | 36107            | 38463            | 38451            | 38423            | 38414            | 38356            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.19             | 3.19             | 3.19             | 3.19             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             |
|                  | 17°F<br>-8.3°C           | TC                  | 34442            | 34451            | 34873            | 35074            | 36203            | 36172            | 36175            | 36182            | 36183            | 36355            | 37325            | 37340            | 37364            | 37365            | 37375            | 39808            | 39795            | 39800            | 39807            | 39844            |
|                  |                          | S/T                 | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 3.13             | 3.14             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             |
|                  | 23°F<br>-5.0°C           | TC                  | 34989            | 35038            | 35608            | 35783            | 36952            | 36785            | 36794            | 36799            | 36800            | 37018            | 38082            | 38081            | 38093            | 38094            | 38101            | 40537            | 40525            | 40526            | 40532            | 40560            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                          | PI                  | 2.91             | 2.91             | 2.92             | 2.92             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |
|                  | 35°F<br>1.7°C            | TC                  | 36572            | 36573            | 36643            | 36684            | 37627            | 38326            | 38321            | 38322            | 38324            | 38324            | 39558            | 39555            | 39551            | 39551            | 39555            | 41849            | 41839            | 41830            | 41836            | 41829            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 2.34             | 2.34             | 2.34             | 2.34             | 2.42             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.81             | 2.80             | 2.80             | 2.80             | 2.80             |
|                  | 41°F<br>5.0°C            | TC                  | 37926            | 37927            | 38032            | 38083            | 39164            | 39737            | 39732            | 39733            | 39734            | 39769            | 41008            | 41003            | 41000            | 41001            | 41005            | 43369            | 43358            | 43349            | 43354            | 43348            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                          | PI                  | 2.31             | 2.31             | 2.32             | 2.33             | 2.41             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             |
|                  | 47°F<br>8.3°C            | TC                  | 39278            | 39278            | 39429            | 39498            | 40713            | 41147            | 41141            | 41142            | 41142            | 41205            | 42457            | 42453            | 42449            | 42450            | 42452            | 44894            | 44882            | 44879            | 44878            | 44871            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 2.29             | 2.29             | 2.30             | 2.31             | 2.40             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.79             | 2.78             | 2.78             | 2.78             | 2.78             |
|                  | 50°F<br>10.0°C           | TC                  | 38300            | 38926            | 40227            | 40457            | 42007            | 40551            | 40575            | 40706            | 40759            | 42056            | 42148            | 42202            | 42226            | 42229            | 42420            | 45184            | 45206            | 45316            | 45328            | 45388            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             |
|                  | 59°F<br>15.0°C           | TC                  | 37550            | 38455            | 39808            | 40047            | 41659            | 39842            | 39859            | 40057            | 40134            | 41707            | 41496            | 41541            | 41558            | 41559            | 41834            | 44665            | 44677            | 44765            | 44775            | 44819            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 2.83             | 2.84             | 2.85             | 2.85             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                  | 68°F<br>20.0°C           | TC                  | 36838            | 38026            | 39425            | 39674            | 41342            | 39140            | 39153            | 39459            | 39716            | 41388            | 40844            | 40877            | 40889            | 40890            | 41355            | 44103            | 44117            | 44188            | 44196            | 44227            |
|                  |                          | S/T                 | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                  | 3.03             | 3.05             | 3.06             | 3.07             | 3.09             | 3.06             | 3.06             | 3.07             | 3.07             | 3.09             | 3.08             | 3.08             | 3.08             | 3.08             | 3.09             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
|                  | 77°F<br>25.0°C           | TC                  | 36057            | 37439            | 38891            | 39149            | 40879            | 38402            | 38420            | 38862            | 39195            | 40927            | 40155            | 40201            | 40220            | 40266            | 40964            | 43490            | 43530            | 43627            | 43638            | 43685            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 3.27             | 3.28             | 3.30             | 3.30             | 3.31             | 3.29             | 3.29             | 3.30             | 3.30             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.35             | 3.35             | 3.34             | 3.34             | 3.34             |

Table 15: COOLING PERFORMANCE 36K - DUCTED (Continued)

| AIRFLOW (CFM) | OUTDOOR DB °F (°C) | ID WB °F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|---------------|--------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|               |                    |               | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|               |                    | ID DB °F (°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324          | 82°F<br>27.8°C     | TC            | 35142            | 36632            | 38092            | 38352            | 40096            | 37462            | 37523            | 38138            | 38398            | 40141            | 39214            | 39267            | 39286            | 39348            | 40178            | 42535            | 42589            | 42696            | 42708            | 42758            |
|               |                    | S/T           | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|               |                    | PI            | 3.40             | 3.42             | 3.43             | 3.43             | 3.45             | 3.43             | 3.43             | 3.43             | 3.44             | 3.45             | 3.45             | 3.45             | 3.44             | 3.44             | 3.45             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|               | 86°F<br>30.0°C     | TC            | 33778            | 35342            | 36776            | 37030            | 38755            | 36008            | 36083            | 36820            | 37074            | 38786            | 37726            | 37771            | 37830            | 37864            | 38822            | 40969            | 41028            | 41124            | 41135            | 41177            |
|               |                    | S/T           | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|               |                    | PI            | 3.52             | 3.54             | 3.55             | 3.56             | 3.58             | 3.54             | 3.54             | 3.55             | 3.56             | 3.58             | 3.57             | 3.57             | 3.57             | 3.57             | 3.58             | 3.61             | 3.61             | 3.61             | 3.60             | 3.60             |
|               | 95°F<br>35.0°C     | TC            | 31113            | 31168            | 31838            | 32025            | 33281            | 33103            | 33111            | 33122            | 33124            | 33349            | 34532            | 34536            | 34554            | 34556            | 34572            | 37279            | 37265            | 37269            | 37267            | 37295            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|               |                    | PI            | 3.64             | 3.64             | 3.68             | 3.69             | 3.76             | 3.75             | 3.75             | 3.75             | 3.75             | 3.77             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |
|               | 104°F<br>40.0°C    | TC            | 26434            | 26529            | 27293            | 27454            | 28542            | 28126            | 28135            | 28142            | 28144            | 28515            | 29341            | 29346            | 29362            | 29364            | 29373            | 31673            | 31661            | 31668            | 31662            | 31692            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|               |                    | PI            | 3.10             | 3.10             | 3.15             | 3.16             | 3.22             | 3.19             | 3.19             | 3.19             | 3.19             | 3.21             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.40             | 3.40             | 3.40             | 3.40             | 3.40             |
|               | 110°F<br>43.0°C    | TC            | 23474            | 24109            | 25024            | 25186            | 26268            | 25077            | 25086            | 25195            | 25244            | 26297            | 26223            | 26238            | 26247            | 26247            | 26400            | 28424            | 28412            | 28440            | 28445            | 28466            |
|               |                    | S/T           | 0.89             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|               |                    | PI            | 2.80             | 2.83             | 2.87             | 2.87             | 2.92             | 2.87             | 2.87             | 2.87             | 2.88             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             |
|               | 115°F<br>46.0°C    | TC            | 21027            | 21819            | 22676            | 22829            | 23846            | 22459            | 22465            | 22661            | 22858            | 23874            | 23531            | 23552            | 23558            | 23559            | 23895            | 25537            | 25525            | 25565            | 25569            | 25582            |
|               |                    | S/T           | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.98             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.40             | 0.50             | 0.61             | 0.63             | 0.75             |
|               |                    | PI            | 2.61             | 2.64             | 2.67             | 2.68             | 2.72             | 2.67             | 2.66             | 2.67             | 2.68             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.72             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|               | 122°F<br>50.0°C    | TC            | 18034            | 19022            | 19869            | 20020            | 21025            | 18870            | 19018            | 19892            | 20042            | 21047            | 19872            | 19870            | 19974            | 20034            | 21065            | 21748            | 21791            | 21802            | 21802            | 21790            |
|               |                    | S/T           | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.80             | 0.98             | 1.00             | 1.00             | 1.00             | 0.64             | 0.81             | 0.95             | 0.98             | 1.00             | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|               |                    | PI            | 2.40             | 2.42             | 2.44             | 2.44             | 2.46             | 2.42             | 2.42             | 2.44             | 2.44             | 2.46             | 2.44             | 2.44             | 2.44             | 2.44             | 2.46             | 2.49             | 2.49             | 2.48             | 2.48             | 2.48             |
| 1618          | -22°F<br>-30.0°C   | TC            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | S/T           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | PI            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               | -13°F<br>-25.0°C   | TC            | 31152            | 31138            | 31582            | 31713            | 32586            | 32503            | 32476            | 32455            | 32452            | 32425            | 33474            | 33432            | 33401            | 33396            | 33364            | 35309            | 35300            | 35227            | 35214            | 35139            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.63             | 3.63             | 3.62             | 3.62             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             | 3.60             | 3.61             | 3.61             | 3.61             | 3.61             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             |
|               | -4°F<br>-20.0°C    | TC            | 33548            | 33533            | 34011            | 34152            | 35092            | 35003            | 34974            | 34952            | 34949            | 34920            | 36049            | 36004            | 35970            | 35965            | 35931            | 38025            | 38015            | 37937            | 37923            | 37842            |
|               |                    | S/T           | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.76             | 3.76             | 3.75             | 3.75             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             | 3.73             | 3.73             | 3.74             | 3.74             | 3.74             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             |
|               | 0°F<br>-17.8°C     | TC            | 34662            | 34641            | 35284            | 35431            | 36404            | 36148            | 36108            | 36080            | 36076            | 36439            | 37211            | 37158            | 37112            | 37106            | 37089            | 39212            | 39203            | 39200            | 39205            | 39230            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.78             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.83             | 3.83             | 3.83             | 3.83             | 3.84             |
|               | 5°F<br>-15.0°C     | TC            | 35656            | 35778            | 36596            | 36765            | 37898            | 37328            | 37337            | 37340            | 37378            | 37935            | 38521            | 38531            | 38539            | 38540            | 38592            | 40781            | 40769            | 40790            | 40794            | 40812            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 3.82             | 3.82             | 3.83             | 3.83             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.85             | 3.86             | 3.86             | 3.86             | 3.86             | 3.87             | 3.95             | 3.95             | 3.95             | 3.95             | 3.95             |
|               | 14°F<br>-10.0°C    | TC            | 39595            | 39575            | 40383            | 40572            | 41830            | 41561            | 41524            | 41496            | 41491            | 41880            | 42985            | 42931            | 42887            | 42880            | 42837            | 45706            | 45692            | 45605            | 45589            | 45492            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 3.74             | 3.74             | 3.74             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.72             | 3.72             | 3.72             | 3.73             | 3.73             | 3.74             | 3.74             | 3.74             | 3.74             | 3.74             |
|               | 17°F<br>-8.3°C     | TC            | 40809            | 40942            | 41888            | 42092            | 43460            | 42840            | 42858            | 42866            | 42902            | 43506            | 44302            | 44319            | 44336            | 44338            | 44393            | 47116            | 47104            | 47096            | 47105            | 47144            |
|               |                    | S/T           | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 3.68             | 3.68             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             |
|               | 23°F<br>-5.0°C     | TC            | 41564            | 41742            | 42822            | 43034            | 44452            | 43668            | 43681            | 43686            | 43743            | 44500            | 45175            | 45190            | 45202            | 45203            | 45276            | 48034            | 48019            | 48053            | 48060            | 48088            |
|               |                    | S/T           | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 3.41             | 3.42             | 3.43             | 3.43             | 3.45             | 3.44             | 3.44             | 3.44             | 3.44             | 3.45             | 3.46             | 3.46             | 3.46             | 3.46             | 3.47             | 3.53             | 3.53             | 3.53             | 3.53             | 3.53             |

Table 15: COOLING PERFORMANCE 36K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)      |                     |                     |                     |                     | 64.4°F(18.0°C)      |                     |                     |                     |                     | 67°F(19.4°C)        |                     |                     |                     |                     | 71.6°F(22.0°C)      |                     |                     |                     |                     |
|------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                  |                          |                     | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    |
|                  |                          |                     | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) |
| 1618             | 35°F<br>1.7°C            | TC                  | 43476               | 43478               | 43733               | 43855               | 45270               | 45508               | 45506               | 45510               | 45511               | 45632               | 46933               | 46930               | 46932               | 46933               | 46938               | 49576               | 49564               | 49561               | 49559               | 49563               |
|                  |                          | S/T                 | 0.78                | 0.88                | 0.97                | 0.99                | 1.00                | 0.63                | 0.73                | 0.82                | 0.83                | 0.93                | 0.54                | 0.63                | 0.72                | 0.73                | 0.83                | 0.39                | 0.46                | 0.54                | 0.56                | 0.65                |
|                  |                          | PI                  | 2.74                | 2.74                | 2.76                | 2.77                | 2.89                | 2.91                | 2.91                | 2.91                | 2.91                | 2.92                | 3.03                | 3.03                | 3.03                | 3.03                | 3.03                | 3.30                | 3.30                | 3.30                | 3.30                | 3.30                |
|                  | 41°F<br>5.0°C            | TC                  | 45084               | 45084               | 45443               | 45759               | 47111               | 47180               | 47179               | 47182               | 47182               | 47348               | 48652               | 48649               | 48652               | 48653               | 48656               | 51382               | 51369               | 51366               | 51364               | 51369               |
|                  |                          | S/T                 | 0.78                | 0.89                | 0.98                | 1.00                | 1.00                | 0.64                | 0.74                | 0.83                | 0.84                | 0.94                | 0.54                | 0.64                | 0.72                | 0.74                | 0.84                | 0.39                | 0.47                | 0.55                | 0.56                | 0.66                |
|                  |                          | PI                  | 2.71                | 2.71                | 2.74                | 2.77                | 2.88                | 2.88                | 2.88                | 2.88                | 2.88                | 2.90                | 3.02                | 3.02                | 3.02                | 3.02                | 3.02                | 3.29                | 3.28                | 3.28                | 3.28                | 3.28                |
|                  | 47°F<br>8.3°C            | TC                  | 46690               | 46721               | 47348               | 47559               | 48966               | 48855               | 48853               | 48855               | 48854               | 49080               | 50372               | 50368               | 50371               | 50371               | 50371               | 53192               | 53179               | 53175               | 53172               | 53178               |
|                  |                          | S/T                 | 0.79                | 0.90                | 1.00                | 1.00                | 1.00                | 0.64                | 0.75                | 0.84                | 0.85                | 0.96                | 0.54                | 0.65                | 0.73                | 0.75                | 0.85                | 0.39                | 0.47                | 0.55                | 0.57                | 0.67                |
|                  |                          | PI                  | 2.69                | 2.69                | 2.74                | 2.76                | 2.88                | 2.87                | 2.87                | 2.87                | 2.87                | 2.89                | 3.00                | 3.00                | 3.00                | 3.00                | 3.00                | 3.27                | 3.27                | 3.27                | 3.27                | 3.27                |
|                  | 50°F<br>10.0°C           | TC                  | 45565               | 46820               | 48400               | 48680               | 50567               | 48138               | 48164               | 48497               | 48650               | 50615               | 50015               | 50081               | 50107               | 50110               | 50592               | 53463               | 53604               | 53742               | 53758               | 53825               |
|                  |                          | S/T                 | 0.90                | 1.00                | 1.00                | 1.00                | 1.00                | 0.71                | 0.85                | 0.96                | 0.99                | 1.00                | 0.59                | 0.72                | 0.83                | 0.85                | 0.99                | 0.40                | 0.50                | 0.60                | 0.62                | 0.74                |
|                  |                          | PI                  | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.09                | 3.08                | 3.08                | 3.08                |
|                  | 59°F<br>15.0°C           | TC                  | 44701               | 46269               | 47911               | 48203               | 50164               | 47295               | 47360               | 47897               | 48254               | 50214               | 49246               | 49296               | 49313               | 49385               | 50255               | 52881               | 52987               | 53092               | 53104               | 53148               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.73                | 0.86                | 1.00                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 3.33                | 3.34                | 3.35                | 3.35                | 3.36                | 3.35                | 3.35                | 3.35                | 3.35                | 3.36                | 3.36                | 3.36                | 3.36                | 3.36                | 3.36                | 3.38                | 3.38                | 3.38                | 3.38                | 3.37                |
|                  | 68°F<br>20.0°C           | TC                  | 43820               | 45691               | 47385               | 47686               | 49710               | 46391               | 46495               | 47437               | 47738               | 49759               | 48396               | 48433               | 48520               | 48562               | 49800               | 52147               | 52244               | 52326               | 52334               | 52362               |
|                  |                          | S/T                 | 0.95                | 1.00                | 1.00                | 1.00                | 1.00                | 0.74                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.89                | 1.00                | 0.40                | 0.51                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 3.57                | 3.59                | 3.61                | 3.61                | 3.63                | 3.60                | 3.60                | 3.61                | 3.61                | 3.64                | 3.62                | 3.62                | 3.62                | 3.62                | 3.64                | 3.67                | 3.67                | 3.67                | 3.67                | 3.67                |
|                  | 77°F<br>25.0°C           | TC                  | 42911               | 44977               | 46737               | 47048               | 49151               | 45491               | 45635               | 46788               | 47101               | 49200               | 47551               | 47604               | 47726               | 47779               | 49241               | 51357               | 51513               | 51632               | 51645               | 51693               |
|                  |                          | S/T                 | 0.97                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.90                | 1.00                | 1.00                | 1.00                | 0.61                | 0.76                | 0.88                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.79                |
|                  |                          | PI                  | 3.84                | 3.86                | 3.88                | 3.88                | 3.90                | 3.87                | 3.87                | 3.88                | 3.88                | 3.90                | 3.89                | 3.89                | 3.89                | 3.89                | 3.90                | 3.94                | 3.93                | 3.93                | 3.93                | 3.93                |
|                  | 82°F<br>27.8°C           | TC                  | 41854               | 43990               | 45765               | 46075               | 48185               | 44352               | 44523               | 45804               | 46126               | 48235               | 46415               | 46474               | 46618               | 46676               | 48278               | 50184               | 50373               | 50504               | 50518               | 50573               |
|                  |                          | S/T                 | 0.99                | 1.00                | 1.00                | 1.00                | 1.00                | 0.76                | 0.91                | 1.00                | 1.00                | 1.00                | 0.62                | 0.77                | 0.89                | 0.92                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.80                |
|                  |                          | PI                  | 4.00                | 4.02                | 4.04                | 4.04                | 4.06                | 4.03                | 4.03                | 4.04                | 4.04                | 4.06                | 4.05                | 4.05                | 4.05                | 4.05                | 4.06                | 4.10                | 4.09                | 4.09                | 4.09                | 4.08                |
|                  | 86°F<br>30.0°C           | TC                  | 40446               | 42465               | 44202               | 44510               | 46583               | 42654               | 42850               | 44251               | 44561               | 46631               | 44675               | 44726               | 44890               | 44955               | 46671               | 48365               | 48552               | 48668               | 48679               | 48725               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.77                | 0.93                | 1.00                | 1.00                | 1.00                | 0.62                | 0.78                | 0.91                | 0.93                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.81                |
|                  |                          | PI                  | 4.14                | 4.16                | 4.18                | 4.18                | 4.21                | 4.16                | 4.17                | 4.18                | 4.18                | 4.21                | 4.19                | 4.19                | 4.19                | 4.19                | 4.21                | 4.25                | 4.24                | 4.24                | 4.23                | 4.23                |
|                  | 95°F<br>35.0°C           | TC                  | 36962               | 37161               | 38362               | 38590               | 40115               | 39283               | 39305               | 39318               | 39364               | 40165               | 40968               | 40977               | 41002               | 41006               | 41074               | 44145               | 44128               | 44137               | 44150               | 44209               |
|                  |                          | S/T                 | 0.83                | 0.95                | 1.00                | 1.00                | 1.00                | 0.66                | 0.78                | 0.88                | 0.89                | 1.00                | 0.56                | 0.67                | 0.76                | 0.78                | 0.88                | 0.39                | 0.48                | 0.57                | 0.58                | 0.68                |
|                  |                          | PI                  | 4.28                | 4.29                | 4.35                | 4.37                | 4.45                | 4.41                | 4.41                | 4.41                | 4.41                | 4.46                | 4.51                | 4.51                | 4.51                | 4.51                | 4.51                | 4.69                | 4.69                | 4.69                | 4.69                | 4.70                |
|                  | 104°F<br>40.0°C          | TC                  | 31406               | 31693               | 32886               | 33084               | 34404               | 33384               | 33403               | 33462               | 33498               | 34446               | 34809               | 34823               | 34841               | 34843               | 34942               | 37519               | 37504               | 37522               | 37535               | 37574               |
|                  |                          | S/T                 | 0.85                | 0.98                | 1.00                | 1.00                | 1.00                | 0.68                | 0.80                | 0.90                | 0.92                | 1.00                | 0.56                | 0.68                | 0.78                | 0.80                | 0.91                | 0.39                | 0.48                | 0.58                | 0.59                | 0.70                |
|                  |                          | PI                  | 3.64                | 3.66                | 3.72                | 3.73                | 3.81                | 3.75                | 3.75                | 3.76                | 3.76                | 3.81                | 3.84                | 3.83                | 3.83                | 3.83                | 3.84                | 3.99                | 3.99                | 3.99                | 3.99                | 3.99                |
|                  | 110°F<br>43.0°C          | TC                  | 27965               | 29039               | 30147               | 30342               | 31657               | 29773               | 29781               | 30114               | 30378               | 31690               | 31113               | 31137               | 31145               | 31168               | 31717               | 33676               | 33678               | 33730               | 33735               | 33754               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.72                | 0.87                | 0.99                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 3.30                | 3.34                | 3.39                | 3.40                | 3.45                | 3.37                | 3.37                | 3.39                | 3.40                | 3.45                | 3.43                | 3.43                | 3.43                | 3.43                | 3.45                | 3.54                | 3.54                | 3.54                | 3.54                | 3.54                |
|                  | 115°F<br>46.0°C          | TC                  | 25067               | 26274               | 27313               | 27516               | 28728               | 26657               | 26710               | 27344               | 27551               | 28757               | 27900               | 27917               | 27955               | 27982               | 28782               | 30252               | 30274               | 30316               | 30320               | 30330               |
|                  |                          | S/T                 | 0.96                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 3.08                | 3.13                | 3.16                | 3.18                | 3.22                | 3.14                | 3.14                | 3.17                | 3.18                | 3.22                | 3.19                | 3.19                | 3.19                | 3.19                | 3.22                | 3.28                | 3.28                | 3.28                | 3.28                | 3.28                |
|                  | 122°F<br>50.0°C          | TC                  | 21461               | 22645               | 23658               | 23835               | 25039               | 22145               | 22669               | 23685               | 23862               | 25063               | 23321               | 23315               | 23702               | 23881               | 25078               | 25465               | 25564               | 25570               | 25568               | 25601               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.84                | 1.00                | 1.00                | 1.00                | 1.00                | 0.67                | 0.85                | 1.00                | 1.00                | 1.00                | 0.41                | 0.55                | 0.69                | 0.72                | 0.88                |
|                  |                          | PI                  | 2.82                | 2.85                | 2.87                | 2.87                | 2.90                | 2.84                | 2.85                | 2.87                | 2.87                | 2.90                | 2.86                | 2.86                | 2.87                | 2.87                | 2.90                | 2.93                | 2.92                | 2.91                | 2.91                | 2.91                |

## COOLING PERFORMANCE 48K

Table 16: COOLING PERFORMANCE 48K - DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                     |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735              | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 21632            | 21629            | 21626            | 21626            | 21622            | 22639            | 22633            | 22629            | 22629            | 22624            | 23353            | 23347            | 23341            | 23340            | 23335            | 24692            | 24685            | 24680            | 24679            | 24671            |
|                  |                          | S/T                 | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                  | 3.39             | 3.39             | 3.39             | 3.39             | 3.39             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.33             | 3.33             | 3.33             | 3.33             | 3.33             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             |
|                  | -4°F<br>-20.0°C          | TC                  | 23296            | 23293            | 23290            | 23289            | 23285            | 24380            | 24374            | 24370            | 24369            | 24365            | 25149            | 25143            | 25137            | 25136            | 25130            | 26591            | 26584            | 26578            | 26577            | 26568            |
|                  |                          | S/T                 | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                  |                          | PI                  | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.45             | 3.45             | 3.45             | 3.45             | 3.45             | 3.44             | 3.44             | 3.44             | 3.44             | 3.44             |
|                  | 0°F<br>-17.8°C           | TC                  | 24054            | 24049            | 24045            | 24045            | 24038            | 25163            | 25158            | 25152            | 25151            | 25144            | 25948            | 25941            | 25935            | 25934            | 25926            | 27412            | 27405            | 27399            | 27398            | 27387            |
|                  |                          | S/T                 | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                  | 3.54             | 3.54             | 3.54             | 3.54             | 3.54             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.50             | 3.50             | 3.50             | 3.50             | 3.50             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             |
|                  | 5°F<br>-15.0°C           | TC                  | 24808            | 24808            | 24809            | 24808            | 25179            | 26047            | 26043            | 26042            | 26042            | 26045            | 26938            | 26936            | 26932            | 26932            | 26934            | 28646            | 28638            | 28631            | 28630            | 28630            |
|                  |                          | S/T                 | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             |
|                  | 14°F<br>-10.0°C          | TC                  | 27291            | 27287            | 27283            | 27283            | 27416            | 28723            | 28716            | 28711            | 28711            | 28705            | 29747            | 29740            | 29732            | 29731            | 29725            | 31691            | 31682            | 31674            | 31672            | 31662            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                  |                          | PI                  | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             |
|                  | 17°F<br>-8.3°C           | TC                  | 28136            | 28130            | 28126            | 28125            | 28530            | 29611            | 29604            | 29598            | 29597            | 29597            | 30671            | 30670            | 30665            | 30665            | 30669            | 32742            | 32733            | 32725            | 32723            | 32725            |
|                  |                          | S/T                 | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.58             | 3.58             | 3.58             | 3.58             | 3.57             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             |
|                  | 23°F<br>-5.0°C           | TC                  | 28117            | 28117            | 28117            | 28136            | 28649            | 29630            | 29624            | 29624            | 29624            | 29627            | 30718            | 30716            | 30712            | 30711            | 30714            | 32812            | 32803            | 32795            | 32793            | 32794            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.35             | 3.35             | 3.35             | 3.35             | 3.36             | 3.36             | 3.36             | 3.36             | 3.36             | 3.36             | 3.38             | 3.38             | 3.38             | 3.38             | 3.38             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             |
|                  | 35°F<br>1.7°C            | TC                  | 28309            | 28307            | 28305            | 28305            | 28343            | 29775            | 29773            | 29769            | 29768            | 29766            | 30812            | 30806            | 30804            | 30804            | 30799            | 32753            | 32745            | 32739            | 32738            | 32736            |
|                  |                          | S/T                 | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                  |                          | PI                  | 2.74             | 2.74             | 2.74             | 2.74             | 2.75             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             |
|                  | 41°F<br>5.0°C            | TC                  | 28590            | 28586            | 28585            | 28584            | 28651            | 30059            | 30055            | 30052            | 30051            | 30049            | 31097            | 31091            | 31088            | 31088            | 31083            | 33042            | 33035            | 33029            | 33028            | 33025            |
|                  |                          | S/T                 | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                  | 2.87             | 2.87             | 2.87             | 2.87             | 2.88             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.47             | 3.47             | 3.46             | 3.46             | 3.46             |
|                  | 47°F<br>8.3°C            | TC                  | 28865            | 28861            | 28860            | 28860            | 28960            | 30338            | 30335            | 30331            | 30331            | 30328            | 31381            | 31374            | 31372            | 31371            | 31367            | 33330            | 33322            | 33316            | 33315            | 33312            |
|                  |                          | S/T                 | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                  | 3.00             | 3.00             | 3.00             | 3.00             | 3.02             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.66             | 3.66             | 3.65             | 3.65             | 3.65             |
|                  | 50°F<br>10.0°C           | TC                  | 28470            | 28474            | 28736            | 28970            | 30045            | 30192            | 30199            | 30207            | 30209            | 30320            | 31441            | 31444            | 31458            | 31461            | 31473            | 33863            | 33850            | 33855            | 33853            | 33883            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 3.36             | 3.36             | 3.36             | 3.36             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.37             | 3.36             | 3.36             | 3.36             | 3.36             | 3.36             |
|                  | 59°F<br>15.0°C           | TC                  | 28565            | 28609            | 29171            | 29342            | 30489            | 30381            | 30388            | 30394            | 30394            | 30581            | 31711            | 31703            | 31716            | 31718            | 31727            | 34260            | 34246            | 34249            | 34247            | 34273            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 3.39             | 3.39             | 3.40             | 3.40             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.44             | 3.44             | 3.44             | 3.44             | 3.44             |
|                  | 68°F<br>20.0°C           | TC                  | 28675            | 28768            | 29581            | 29762            | 30979            | 30579            | 30584            | 30588            | 30589            | 30956            | 31968            | 31962            | 31973            | 31975            | 31981            | 34641            | 34626            | 34627            | 34626            | 34653            |
|                  |                          | S/T                 | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 3.42             | 3.42             | 3.43             | 3.44             | 3.46             | 3.45             | 3.45             | 3.45             | 3.45             | 3.46             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             |
|                  | 77°F<br>25.0°C           | TC                  | 28736            | 28878            | 29869            | 30064            | 31358            | 30746            | 30757            | 30763            | 30793            | 31403            | 32216            | 32214            | 32231            | 32233            | 32272            | 35045            | 35029            | 35034            | 35034            | 35075            |
|                  |                          | S/T                 | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 3.48             | 3.48             | 3.49             | 3.50             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.53             | 3.53             | 3.53             | 3.53             | 3.53             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 16: COOLING PERFORMANCE 48K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735              | 82°F<br>27.8°C           | TC                  | 28589            | 28773            | 29877            | 30075            | 31404            | 30641            | 30656            | 30682            | 30708            | 31449            | 32143            | 32145            | 32163            | 32166            | 32221            | 35035            | 35019            | 35025            | 35028            | 35075            |
|                  |                          | S/T                 | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 3.47             | 3.47             | 3.48             | 3.49             | 3.50             | 3.49             | 3.49             | 3.49             | 3.49             | 3.50             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             |
|                  | 86°F<br>30.0°C           | TC                  | 28250            | 28496            | 29684            | 29884            | 31228            | 30315            | 30328            | 30370            | 30400            | 31273            | 31822            | 31826            | 31843            | 31845            | 31917            | 34728            | 34710            | 34717            | 34724            | 34767            |
|                  |                          | S/T                 | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 3.39             | 3.40             | 3.42             | 3.42             | 3.44             | 3.43             | 3.43             | 3.43             | 3.43             | 3.44             | 3.45             | 3.45             | 3.45             | 3.45             | 3.45             | 3.49             | 3.49             | 3.48             | 3.48             | 3.48             |
|                  | 95°F<br>35.0°C           | TC                  | 27914            | 27913            | 27916            | 27947            | 28663            | 29783            | 29776            | 29774            | 29774            | 29780            | 31131            | 31128            | 31122            | 31121            | 31122            | 33736            | 33724            | 33715            | 33714            | 33713            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.13             | 3.13             | 3.13             | 3.13             | 3.17             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.30             | 3.30             | 3.30             | 3.30             | 3.30             | 3.44             | 3.44             | 3.44             | 3.44             | 3.43             |
|                  | 104°F<br>40.0°C          | TC                  | 24564            | 24565            | 24609            | 24642            | 25465            | 26205            | 26199            | 26198            | 26199            | 26204            | 27390            | 27387            | 27381            | 27381            | 27385            | 29676            | 29665            | 29658            | 29656            | 29656            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.61             | 0.71             | 0.78             | 0.80             | 0.89             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                  | 3.04             | 3.04             | 3.04             | 3.05             | 3.09             | 3.14             | 3.14             | 3.14             | 3.14             | 3.14             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.34             | 3.34             | 3.33             | 3.33             | 3.33             |
|                  | 110°F<br>43.0°C          | TC                  | 22409            | 22441            | 22945            | 23094            | 24066            | 23995            | 23992            | 23997            | 23997            | 24134            | 25137            | 25134            | 25137            | 25138            | 25145            | 27342            | 27330            | 27330            | 27330            | 27328            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 3.02             | 3.03             | 3.05             | 3.06             | 3.10             | 3.10             | 3.10             | 3.09             | 3.09             | 3.10             | 3.15             | 3.15             | 3.15             | 3.15             | 3.15             | 3.25             | 3.25             | 3.25             | 3.25             | 3.25             |
|                  | 115°F<br>46.0°C          | TC                  | 19639            | 19714            | 20388            | 20521            | 21420            | 21066            | 21068            | 21071            | 21072            | 21451            | 22096            | 22094            | 22100            | 22102            | 22103            | 24081            | 24071            | 24069            | 24067            | 24078            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.89             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                  | 2.72             | 2.73             | 2.75             | 2.76             | 2.79             | 2.78             | 2.78             | 2.78             | 2.78             | 2.79             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             | 2.90             | 2.90             | 2.90             | 2.90             | 2.90             |
|                  | 122°F<br>50.0°C          | TC                  | 15877            | 16563            | 17292            | 17417            | 18279            | 17123            | 17124            | 17274            | 17441            | 18304            | 18046            | 18052            | 18052            | 18052            | 18322            | 19832            | 19821            | 19835            | 19836            | 19841            |
|                  |                          | S/T                 | 0.93             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.39             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                  | 2.33             | 2.35             | 2.37             | 2.37             | 2.39             | 2.36             | 2.36             | 2.37             | 2.37             | 2.39             | 2.39             | 2.38             | 2.38             | 2.38             | 2.39             | 2.43             | 2.43             | 2.43             | 2.43             | 2.42             |
| 1029             | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 25736            | 25730            | 25725            | 25725            | 26253            | 26895            | 26887            | 26880            | 26879            | 26870            | 27716            | 27707            | 27697            | 27695            | 27683            | 29257            | 29249            | 29237            | 29236            | 29217            |
|                  |                          | S/T                 | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                          | PI                  | 3.89             | 3.89             | 3.89             | 3.89             | 3.87             | 3.85             | 3.85             | 3.85             | 3.85             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             |
|                  | -4°F<br>-20.0°C          | TC                  | 27716            | 27710            | 27704            | 27704            | 28272            | 28963            | 28955            | 28947            | 28946            | 28937            | 29848            | 29838            | 29828            | 29826            | 29812            | 31507            | 31499            | 31486            | 31485            | 31465            |
|                  |                          | S/T                 | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 4.02             | 4.03             | 4.03             | 4.03             | 4.01             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 3.97             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             |
|                  | 0°F<br>-17.8°C           | TC                  | 28622            | 28614            | 28608            | 28606            | 29319            | 29898            | 29888            | 29876            | 29874            | 29861            | 30801            | 30788            | 30775            | 30772            | 30753            | 32477            | 32471            | 32467            | 32465            | 32469            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 4.06             | 4.06             | 4.06             | 4.06             | 4.05             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.06             | 4.06             | 4.06             | 4.06             | 4.06             |
|                  | 5°F<br>-15.0°C           | TC                  | 29492            | 29495            | 29587            | 29629            | 30496            | 30928            | 30927            | 30931            | 30932            | 30969            | 31958            | 31956            | 31959            | 31960            | 31966            | 33922            | 33913            | 33913            | 33912            | 33914            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 4.10             | 4.10             | 4.10             | 4.10             | 4.09             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             |
|                  | 14°F<br>-10.0°C          | TC                  | 32461            | 32454            | 32448            | 32447            | 33368            | 34119            | 34109            | 34100            | 34098            | 34087            | 35305            | 35293            | 35281            | 35278            | 35262            | 37558            | 37547            | 37532            | 37531            | 37506            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 4.14             | 4.14             | 4.14             | 4.14             | 4.13             | 4.11             | 4.12             | 4.12             | 4.12             | 4.12             | 4.10             | 4.10             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             |
|                  | 17°F<br>-8.3°C           | TC                  | 33444            | 33433            | 33521            | 33567            | 34573            | 35152            | 35140            | 35148            | 35149            | 35186            | 36383            | 36383            | 36388            | 36391            | 36402            | 38770            | 38758            | 38762            | 38760            | 38769            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 4.12             | 4.12             | 4.12             | 4.12             | 4.11             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             |
|                  | 23°F<br>-5.0°C           | TC                  | 33427            | 33430            | 33566            | 33625            | 34730            | 35181            | 35180            | 35186            | 35187            | 35243            | 36441            | 36440            | 36443            | 36445            | 36453            | 38855            | 38843            | 38845            | 38843            | 38849            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 3.85             | 3.85             | 3.86             | 3.86             | 3.87             | 3.87             | 3.87             | 3.87             | 3.87             | 3.87             | 3.89             | 3.89             | 3.89             | 3.89             | 3.89             | 3.95             | 3.95             | 3.95             | 3.95             | 3.95             |

Table 16: COOLING PERFORMANCE 48K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1029             | 35°F<br>1.7°C            | TC                  | 33710            | 33708            | 33708            | 33708            | 34142            | 35386            | 35380            | 35377            | 35377            | 35378            | 36562            | 36559            | 36553            | 36553            | 36551            | 38760            | 38751            | 38743            | 38742            | 38740            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                          | PI                  | 3.15             | 3.15             | 3.15             | 3.15             | 3.19             | 3.33             | 3.33             | 3.33             | 3.33             | 3.33             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.78             | 3.77             | 3.77             | 3.77             | 3.77             |
|                  | 41°F<br>5.0°C            | TC                  | 33953            | 34035            | 34035            | 34045            | 34606            | 35718            | 35712            | 35708            | 35709            | 35710            | 36899            | 36896            | 36890            | 36889            | 36888            | 39103            | 39094            | 39086            | 39084            | 39082            |
|                  |                          | S/T                 | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.29             | 3.30             | 3.30             | 3.30             | 3.37             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |
|                  | 47°F<br>8.3°C            | TC                  | 34362            | 34361            | 34360            | 34394            | 35071            | 36048            | 36042            | 36039            | 36039            | 36040            | 37237            | 37233            | 37227            | 37226            | 37226            | 39449            | 39439            | 39432            | 39431            | 39427            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                  | 3.46             | 3.46             | 3.46             | 3.47             | 3.55             | 3.70             | 3.70             | 3.70             | 3.70             | 3.70             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             | 4.21             | 4.21             | 4.21             | 4.21             | 4.21             |
|                  | 50°F<br>10.0°C           | TC                  | 33824            | 33967            | 34926            | 35124            | 36452            | 35831            | 35854            | 35863            | 35900            | 36498            | 37286            | 37307            | 37329            | 37332            | 37386            | 40063            | 40048            | 40094            | 40106            | 40160            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             |
|                  | 59°F<br>15.0°C           | TC                  | 33939            | 34181            | 35389            | 35600            | 37015            | 36062            | 36079            | 36134            | 36167            | 37063            | 37597            | 37617            | 37635            | 37637            | 37729            | 40549            | 40532            | 40572            | 40581            | 40623            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 3.91             | 3.91             | 3.92             | 3.93             | 3.94             | 3.93             | 3.93             | 3.93             | 3.93             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             | 3.97             | 3.97             | 3.97             | 3.97             | 3.96             |
|                  | 68°F<br>20.0°C           | TC                  | 34069            | 34641            | 35901            | 36124            | 37624            | 36299            | 36313            | 36413            | 36457            | 37672            | 37908            | 37928            | 37941            | 37942            | 38090            | 41009            | 40991            | 41031            | 41039            | 41072            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 3.94             | 3.95             | 3.97             | 3.97             | 4.00             | 3.98             | 3.98             | 3.98             | 3.98             | 4.00             | 4.01             | 4.00             | 4.00             | 4.00             | 4.01             | 4.06             | 4.06             | 4.05             | 4.05             | 4.05             |
|                  | 77°F<br>25.0°C           | TC                  | 34140            | 34937            | 36275            | 36513            | 38110            | 36501            | 36518            | 36659            | 36718            | 38159            | 38194            | 38227            | 38246            | 38249            | 38446            | 41471            | 41451            | 41517            | 41527            | 41575            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                          | PI                  | 4.01             | 4.02             | 4.04             | 4.04             | 4.06             | 4.04             | 4.04             | 4.04             | 4.05             | 4.06             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             |
|                  | 82°F<br>27.8°C           | TC                  | 33993            | 34917            | 36291            | 36535            | 38174            | 36376            | 36396            | 36571            | 36643            | 38225            | 38105            | 38146            | 38166            | 38168            | 38409            | 41451            | 41459            | 41511            | 41523            | 41576            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                  | 4.00             | 4.01             | 4.03             | 4.03             | 4.05             | 4.03             | 4.03             | 4.03             | 4.03             | 4.05             | 4.05             | 4.05             | 4.05             | 4.05             | 4.05             | 4.09             | 4.09             | 4.09             | 4.09             | 4.09             |
|                  | 86°F<br>30.0°C           | TC                  | 33612            | 34673            | 36064            | 36309            | 37965            | 35992            | 36009            | 36224            | 36320            | 38015            | 37728            | 37768            | 37785            | 37788            | 38081            | 41090            | 41093            | 41153            | 41164            | 41212            |
|                  |                          | S/T                 | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                          | PI                  | 3.92             | 3.93             | 3.95             | 3.95             | 3.97             | 3.95             | 3.95             | 3.95             | 3.95             | 3.97             | 3.98             | 3.97             | 3.97             | 3.97             | 3.98             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             |
|                  | 95°F<br>35.0°C           | TC                  | 33201            | 33207            | 33390            | 33476            | 34855            | 35371            | 35367            | 35376            | 35378            | 35440            | 36932            | 36931            | 36930            | 36932            | 36948            | 39942            | 39928            | 39916            | 39934            | 39924            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 3.61             | 3.61             | 3.62             | 3.62             | 3.69             | 3.72             | 3.72             | 3.72             | 3.72             | 3.72             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             |
|                  | 104°F<br>40.0°C          | TC                  | 29209            | 29214            | 29515            | 29787            | 30960            | 31115            | 31114            | 31123            | 31124            | 31235            | 32490            | 32489            | 32491            | 32494            | 32506            | 35130            | 35118            | 35107            | 35118            | 35116            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                  | 3.51             | 3.51             | 3.52             | 3.54             | 3.61             | 3.62             | 3.62             | 3.62             | 3.62             | 3.62             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.85             | 3.85             | 3.85             | 3.85             | 3.84             |
|                  | 110°F<br>43.0°C          | TC                  | 26641            | 26844            | 27879            | 28058            | 29255            | 28481            | 28491            | 28516            | 28542            | 29296            | 29817            | 29816            | 29828            | 29829            | 29881            | 32364            | 32354            | 32354            | 32357            | 32382            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 3.49             | 3.50             | 3.54             | 3.55             | 3.60             | 3.57             | 3.57             | 3.57             | 3.57             | 3.60             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.75             | 3.75             | 3.75             | 3.75             | 3.75             |
|                  | 115°F<br>46.0°C          | TC                  | 23345            | 23844            | 24775            | 24939            | 26041            | 25009            | 25018            | 25085            | 25120            | 26076            | 26210            | 26216            | 26225            | 26225            | 26324            | 28511            | 28499            | 28508            | 28515            | 28536            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 3.14             | 3.16             | 3.19             | 3.20             | 3.24             | 3.21             | 3.20             | 3.21             | 3.21             | 3.24             | 3.25             | 3.25             | 3.25             | 3.25             | 3.25             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             |
|                  | 122°F<br>50.0°C          | TC                  | 19011            | 20084            | 20972            | 21129            | 22185            | 20298            | 20349            | 20998            | 21156            | 22210            | 21382            | 21386            | 21421            | 21444            | 22231            | 23450            | 23457            | 23477            | 23478            | 23475            |
|                  |                          | S/T                 | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                  | 2.69             | 2.72             | 2.74             | 2.74             | 2.76             | 2.72             | 2.72             | 2.74             | 2.74             | 2.77             | 2.75             | 2.75             | 2.75             | 2.75             | 2.77             | 2.80             | 2.80             | 2.80             | 2.80             | 2.79             |

Table 16: COOLING PERFORMANCE 48K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324             | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 30604            | 30593            | 30585            | 30763            | 31668            | 31952            | 31934            | 31920            | 31917            | 31895            | 32905            | 32888            | 32866            | 32863            | 32840            | 34711            | 34702            | 34676            | 34668            | 34616            |
|                  |                          | S/T                 | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 4.51             | 4.51             | 4.51             | 4.51             | 4.49             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             | 4.47             | 4.47             | 4.47             | 4.47             | 4.47             | 4.48             | 4.48             | 4.48             | 4.49             | 4.49             |
|                  | -4°F<br>-20.0°C          | TC                  | 32958            | 32947            | 32938            | 33129            | 34104            | 34409            | 34391            | 34375            | 34373            | 34349            | 35436            | 35418            | 35395            | 35391            | 35366            | 37381            | 37371            | 37343            | 37334            | 37279            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 4.67             | 4.67             | 4.67             | 4.67             | 4.65             | 4.64             | 4.64             | 4.64             | 4.64             | 4.64             | 4.63             | 4.63             | 4.63             | 4.63             | 4.63             | 4.64             | 4.64             | 4.64             | 4.65             | 4.65             |
|                  | 0°F<br>-17.8°C           | TC                  | 34046            | 34031            | 34163            | 34423            | 35377            | 35531            | 35504            | 35483            | 35480            | 35474            | 36572            | 36551            | 36518            | 36513            | 36481            | 38544            | 38532            | 38534            | 38538            | 38567            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 4.71             | 4.71             | 4.71             | 4.70             | 4.70             | 4.69             | 4.70             | 4.70             | 4.70             | 4.70             | 4.70             | 4.70             | 4.70             | 4.70             | 4.70             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             |
|                  | 5°F<br>-15.0°C           | TC                  | 35047            | 35079            | 35552            | 35715            | 36807            | 36714            | 36722            | 36726            | 36726            | 36907            | 37916            | 37912            | 37923            | 37924            | 37928            | 40181            | 40169            | 40170            | 40173            | 40195            |
|                  |                          | S/T                 | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 4.75             | 4.75             | 4.75             | 4.75             | 4.76             | 4.76             | 4.76             | 4.76             | 4.76             | 4.77             | 4.79             | 4.79             | 4.79             | 4.79             | 4.79             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             |
|                  | 14°F<br>-10.0°C          | TC                  | 38580            | 38566            | 38726            | 39064            | 40277            | 40517            | 40494            | 40474            | 40471            | 40450            | 41917            | 41897            | 41865            | 41859            | 41824            | 44553            | 44539            | 44507            | 44497            | 44429            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 4.81             | 4.81             | 4.81             | 4.81             | 4.79             | 4.79             | 4.79             | 4.79             | 4.79             | 4.79             | 4.78             | 4.78             | 4.78             | 4.78             | 4.78             | 4.79             | 4.79             | 4.80             | 4.80             | 4.80             |
|                  | 17°F<br>-8.3°C           | TC                  | 39803            | 39813            | 40301            | 40533            | 41838            | 41802            | 41805            | 41814            | 41815            | 42013            | 43134            | 43151            | 43179            | 43181            | 43192            | 46004            | 45989            | 45994            | 46003            | 46045            |
|                  |                          | S/T                 | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 4.78             | 4.78             | 4.78             | 4.78             | 4.78             | 4.77             | 4.78             | 4.78             | 4.78             | 4.78             | 4.77             | 4.78             | 4.78             | 4.78             | 4.78             | 4.81             | 4.81             | 4.81             | 4.81             | 4.81             |
|                  | 23°F<br>-5.0°C           | TC                  | 39721            | 39776            | 40424            | 40622            | 41950            | 41760            | 41771            | 41776            | 41777            | 42024            | 43232            | 43231            | 43244            | 43246            | 43253            | 46019            | 46006            | 46007            | 46013            | 46045            |
|                  |                          | S/T                 | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                          | PI                  | 4.48             | 4.48             | 4.48             | 4.49             | 4.51             | 4.50             | 4.50             | 4.50             | 4.50             | 4.51             | 4.53             | 4.53             | 4.53             | 4.53             | 4.53             | 4.61             | 4.61             | 4.61             | 4.61             | 4.61             |
|                  | 35°F<br>1.7°C            | TC                  | 40108            | 40109            | 40186            | 40231            | 41265            | 42032            | 42026            | 42028            | 42029            | 42030            | 43383            | 43380            | 43375            | 43375            | 43380            | 45895            | 45885            | 45875            | 45881            | 45873            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 3.66             | 3.66             | 3.67             | 3.67             | 3.79             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             | 4.40             | 4.39             | 4.39             | 4.39             | 4.39             |
|                  | 41°F<br>5.0°C            | TC                  | 40493            | 40493            | 40605            | 40660            | 41814            | 42426            | 42421            | 42422            | 42423            | 42460            | 43783            | 43778            | 43775            | 43775            | 43780            | 46304            | 46293            | 46283            | 46288            | 46281            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                          | PI                  | 3.85             | 3.85             | 3.86             | 3.87             | 4.00             | 4.08             | 4.08             | 4.08             | 4.08             | 4.09             | 4.27             | 4.27             | 4.27             | 4.27             | 4.27             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             |
|                  | 47°F<br>8.3°C            | TC                  | 40874            | 40874            | 41032            | 41103            | 42368            | 42819            | 42813            | 42814            | 42814            | 42879            | 44183            | 44178            | 44175            | 44175            | 44178            | 46718            | 46706            | 46703            | 46702            | 46695            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 4.03             | 4.03             | 4.05             | 4.06             | 4.23             | 4.29             | 4.29             | 4.29             | 4.29             | 4.30             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.90             | 4.90             | 4.90             | 4.90             | 4.90             |
|                  | 50°F<br>10.0°C           | TC                  | 40177            | 40834            | 42198            | 42439            | 44065            | 42538            | 42563            | 42701            | 42756            | 44117            | 44213            | 44270            | 44295            | 44298            | 44498            | 47398            | 47421            | 47536            | 47549            | 47612            |
|                  |                          | S/T                 | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                          | PI                  | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.51             | 4.51             | 4.51             | 4.51             | 4.51             |
|                  | 59°F<br>15.0°C           | TC                  | 40352            | 41324            | 42778            | 43035            | 44767            | 42815            | 42833            | 43046            | 43129            | 44819            | 44592            | 44640            | 44658            | 44660            | 44955            | 47998            | 48011            | 48105            | 48116            | 48163            |
|                  |                          | S/T                 | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 4.55             | 4.56             | 4.57             | 4.58             | 4.59             | 4.58             | 4.57             | 4.58             | 4.58             | 4.59             | 4.59             | 4.59             | 4.59             | 4.59             | 4.59             | 4.62             | 4.62             | 4.62             | 4.62             | 4.61             |
|                  | 68°F<br>20.0°C           | TC                  | 40561            | 41869            | 43410            | 43683            | 45520            | 43096            | 43109            | 43447            | 43730            | 45571            | 44971            | 45008            | 45021            | 45022            | 45535            | 48560            | 48576            | 48653            | 48662            | 48697            |
|                  |                          | S/T                 | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                  | 4.59             | 4.61             | 4.63             | 4.64             | 4.67             | 4.63             | 4.63             | 4.64             | 4.64             | 4.67             | 4.66             | 4.66             | 4.66             | 4.66             | 4.67             | 4.72             | 4.72             | 4.72             | 4.72             | 4.72             |
|                  | 77°F<br>25.0°C           | TC                  | 40687            | 42246            | 43884            | 44175            | 46128            | 43333            | 43353            | 43851            | 44228            | 46182            | 45311            | 45363            | 45384            | 45436            | 46224            | 49074            | 49119            | 49228            | 49240            | 49294            |
|                  |                          | S/T                 | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 4.67             | 4.69             | 4.71             | 4.72             | 4.74             | 4.71             | 4.71             | 4.71             | 4.72             | 4.74             | 4.74             | 4.73             | 4.73             | 4.73             | 4.74             | 4.79             | 4.79             | 4.78             | 4.78             | 4.78             |

Table 16: COOLING PERFORMANCE 48K - DUCTED (Continued)

| AIRFLOW (CFM) | OUTDOOR DB °F (°C) | ID WB °F (°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|---------------|--------------------|---------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|               |                    |               | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|               |                    |               | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    | ID DB °F (°C)    |
| 1324          | 82°F<br>27.8°C     | TC            | 40511            | 42229            | 43912            | 44211            | 46222            | 43185            | 43255            | 43965            | 44264            | 46274            | 45206            | 45266            | 45288            | 45360            | 46316            | 49034            | 49096            | 49219            | 49233            | 49291            |
|               |                    | S/T           | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|               |                    | PI            | 4.66             | 4.68             | 4.70             | 4.70             | 4.72             | 4.69             | 4.69             | 4.70             | 4.70             | 4.72             | 4.72             | 4.71             | 4.71             | 4.71             | 4.72             | 4.77             | 4.76             | 4.76             | 4.76             | 4.76             |
|               | 86°F<br>30.0°C     | TC            | 40034            | 41889            | 43588            | 43888            | 45934            | 42678            | 42767            | 43640            | 43941            | 45970            | 44714            | 44767            | 44837            | 44878            | 46013            | 48557            | 48628            | 48741            | 48754            | 48804            |
|               |                    | S/T           | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|               |                    | PI            | 4.56             | 4.59             | 4.61             | 4.61             | 4.64             | 4.60             | 4.60             | 4.61             | 4.61             | 4.64             | 4.63             | 4.63             | 4.62             | 4.62             | 4.64             | 4.68             | 4.68             | 4.68             | 4.68             | 4.67             |
|               | 95°F<br>35.0°C     | TC            | 39459            | 39529            | 40377            | 40615            | 42208            | 41982            | 41993            | 42007            | 42009            | 42294            | 43795            | 43800            | 43822            | 43825            | 43845            | 47278            | 47261            | 47266            | 47264            | 47299            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|               |                    | PI            | 4.20             | 4.20             | 4.24             | 4.26             | 4.34             | 4.33             | 4.33             | 4.33             | 4.33             | 4.34             | 4.42             | 4.42             | 4.42             | 4.42             | 4.42             | 4.61             | 4.61             | 4.61             | 4.61             | 4.61             |
|               | 104°F<br>40.0°C    | TC            | 34711            | 34835            | 35838            | 36049            | 37479            | 36932            | 36944            | 36954            | 36956            | 37443            | 38528            | 38534            | 38555            | 38558            | 38570            | 41590            | 41574            | 41583            | 41575            | 41615            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|               |                    | PI            | 4.08             | 4.09             | 4.15             | 4.16             | 4.24             | 4.21             | 4.21             | 4.21             | 4.21             | 4.24             | 4.30             | 4.30             | 4.30             | 4.30             | 4.30             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             |
|               | 110°F<br>43.0°C    | TC            | 31656            | 32512            | 33746            | 33964            | 35423            | 33817            | 33829            | 33977            | 34042            | 35462            | 35362            | 35383            | 35395            | 35395            | 35602            | 38331            | 38314            | 38352            | 38359            | 38388            |
|               |                    | S/T           | 0.89             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|               |                    | PI            | 4.06             | 4.09             | 4.15             | 4.16             | 4.22             | 4.15             | 4.15             | 4.16             | 4.16             | 4.23             | 4.23             | 4.22             | 4.22             | 4.22             | 4.23             | 4.36             | 4.36             | 4.36             | 4.36             | 4.36             |
|               | 115°F<br>46.0°C    | TC            | 27775            | 28821            | 29954            | 30155            | 31499            | 29667            | 29674            | 29933            | 30193            | 31535            | 31082            | 31110            | 31119            | 31120            | 31564            | 33733            | 33717            | 33769            | 33774            | 33792            |
|               |                    | S/T           | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 0.98             | 1.00             | 1.00             | 0.59             | 0.73             | 0.84             | 0.86             | 1.00             | 0.40             | 0.50             | 0.61             | 0.63             | 0.75             |
|               |                    | PI            | 3.64             | 3.68             | 3.73             | 3.74             | 3.79             | 3.72             | 3.72             | 3.73             | 3.74             | 3.79             | 3.79             | 3.79             | 3.78             | 3.78             | 3.79             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             |
|               | 122°F<br>50.0°C    | TC            | 22950            | 24207            | 25284            | 25476            | 26755            | 24013            | 24201            | 25313            | 25505            | 26783            | 25288            | 25286            | 25418            | 25494            | 26806            | 27675            | 27730            | 27744            | 27744            | 27729            |
|               |                    | S/T           | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.80             | 0.98             | 1.00             | 1.00             | 1.00             | 0.64             | 0.81             | 0.95             | 0.98             | 1.00             | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|               |                    | PI            | 3.14             | 3.17             | 3.20             | 3.20             | 3.23             | 3.17             | 3.17             | 3.20             | 3.20             | 3.23             | 3.20             | 3.20             | 3.20             | 3.20             | 3.23             | 3.27             | 3.26             | 3.25             | 3.25             | 3.25             |
| 1618          | -22°F<br>-30.0°C   | TC            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | S/T           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               |                    | PI            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|               | -13°F<br>-25.0°C   | TC            | 36374            | 36358            | 36876            | 37029            | 38048            | 37951            | 37920            | 37896            | 37893            | 37861            | 39086            | 39037            | 39000            | 38995            | 38957            | 41228            | 41217            | 41132            | 41117            | 41030            |
|               |                    | S/T           | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 5.28             | 5.29             | 5.28             | 5.27             | 5.26             | 5.25             | 5.26             | 5.26             | 5.26             | 5.26             | 5.25             | 5.25             | 5.25             | 5.25             | 5.25             | 5.28             | 5.28             | 5.28             | 5.28             | 5.28             |
|               | -4°F<br>-20.0°C    | TC            | 39172            | 39155            | 39713            | 39878            | 40975            | 40871            | 40837            | 40811            | 40807            | 40774            | 42093            | 42040            | 42000            | 41994            | 41954            | 44400            | 44388            | 44296            | 44280            | 44186            |
|               |                    | S/T           | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 5.47             | 5.47             | 5.46             | 5.46             | 5.45             | 5.44             | 5.44             | 5.45             | 5.45             | 5.45             | 5.43             | 5.44             | 5.44             | 5.44             | 5.44             | 5.47             | 5.47             | 5.47             | 5.47             | 5.47             |
|               | 0°F<br>-17.8°C     | TC            | 40472            | 40449            | 41199            | 41371            | 42507            | 42208            | 42162            | 42129            | 42124            | 42548            | 43449            | 43387            | 43333            | 43327            | 43306            | 45786            | 45775            | 45771            | 45777            | 45807            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.51             | 5.51             | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.53             | 5.58             | 5.58             | 5.58             | 5.58             | 5.59             |
|               | 5°F<br>-15.0°C     | TC            | 41633            | 41776            | 42731            | 42928            | 44251            | 43586            | 43596            | 43599            | 43644            | 44295            | 44979            | 44991            | 45000            | 45001            | 45061            | 47618            | 47603            | 47628            | 47633            | 47654            |
|               |                    | S/T           | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 5.56             | 5.56             | 5.57             | 5.58             | 5.61             | 5.59             | 5.59             | 5.59             | 5.59             | 5.61             | 5.63             | 5.63             | 5.63             | 5.63             | 5.63             | 5.75             | 5.75             | 5.75             | 5.75             | 5.75             |
|               | 14°F<br>-10.0°C    | TC            | 45864            | 45842            | 46777            | 46997            | 48454            | 48142            | 48099            | 48066            | 48061            | 48511            | 49791            | 49728            | 49678            | 49670            | 49620            | 52944            | 52927            | 52826            | 52807            | 52695            |
|               |                    | S/T           | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|               |                    | PI            | 5.64             | 5.64             | 5.63             | 5.63             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.61             | 5.61             | 5.62             | 5.62             | 5.62             | 5.64             | 5.64             | 5.64             | 5.64             | 5.64             |
|               | 17°F<br>-8.3°C     | TC            | 47161            | 47314            | 48408            | 48644            | 50224            | 49508            | 49529            | 49538            | 49579            | 50278            | 51198            | 51217            | 51237            | 51240            | 51303            | 54450            | 54435            | 54427            | 54437            | 54482            |
|               |                    | S/T           | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|               |                    | PI            | 5.61             | 5.61             | 5.61             | 5.60             | 5.61             | 5.60             | 5.60             | 5.60             | 5.60             | 5.61             | 5.61             | 5.61             | 5.61             | 5.61             | 5.62             | 5.66             | 5.66             | 5.66             | 5.66             | 5.66             |
|               | 23°F<br>-5.0°C     | TC            | 47185            | 47388            | 48614            | 48854            | 50464            | 49574            | 49589            | 49594            | 49659            | 50518            | 51284            | 51301            | 51315            | 51316            | 51399            | 54530            | 54513            | 54552            | 54560            | 54591            |
|               |                    | S/T           | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|               |                    | PI            | 5.25             | 5.25             | 5.27             | 5.28             | 5.31             | 5.29             | 5.29             | 5.29             | 5.29             | 5.31             | 5.32             | 5.33             | 5.33             | 5.33             | 5.33             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 16: COOLING PERFORMANCE 48K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)      |                     |                     |                     |                     | 64.4°F(18.0°C)      |                     |                     |                     |                     | 67°F(19.4°C)        |                     |                     |                     |                     | 71.6°F(22.0°C)      |                     |                     |                     |                     |
|------------------|--------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                  |                          |                     | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C    | 80.0°F<br>26.7°C    | 80.6°F<br>27.0°C    | 84.2°F<br>29.0°C    |
|                  |                          |                     | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) | ID DB<br>°F<br>(°C) |
| 1618             | 35°F<br>1.7°C            | TC                  | 47680               | 47681               | 47961               | 48095               | 49647               | 49908               | 49906               | 49911               | 49911               | 50044               | 51471               | 51467               | 51470               | 51471               | 51476               | 54369               | 54356               | 54353               | 54351               | 54356               |
|                  |                          | S/T                 | 0.78                | 0.88                | 0.97                | 0.99                | 1.00                | 0.63                | 0.73                | 0.82                | 0.83                | 0.93                | 0.54                | 0.63                | 0.72                | 0.73                | 0.83                | 0.39                | 0.46                | 0.54                | 0.56                | 0.65                |
|                  |                          | PI                  | 4.30                | 4.30                | 4.33                | 4.34                | 4.52                | 4.55                | 4.55                | 4.55                | 4.55                | 4.57                | 4.75                | 4.75                | 4.75                | 4.75                | 4.75                | 5.17                | 5.17                | 5.17                | 5.16                | 5.17                |
|                  | 41°F<br>5.0°C            | TC                  | 48135               | 48135               | 48518               | 48856               | 50300               | 50373               | 50372               | 50375               | 50375               | 50552               | 51945               | 51941               | 51944               | 51945               | 51948               | 54859               | 54846               | 54842               | 54840               | 54846               |
|                  |                          | S/T                 | 0.78                | 0.89                | 0.98                | 1.00                | 1.00                | 0.64                | 0.74                | 0.83                | 0.84                | 0.94                | 0.54                | 0.64                | 0.72                | 0.74                | 0.84                | 0.39                | 0.47                | 0.55                | 0.56                | 0.66                |
|                  |                          | PI                  | 4.51                | 4.51                | 4.56                | 4.60                | 4.79                | 4.80                | 4.80                | 4.80                | 4.80                | 4.82                | 5.02                | 5.02                | 5.02                | 5.02                | 5.02                | 5.47                | 5.46                | 5.46                | 5.46                | 5.46                |
|                  | 47°F<br>8.3°C            | TC                  | 48588               | 48620               | 49272               | 49492               | 50957               | 50841               | 50839               | 50840               | 50839               | 51075               | 52420               | 52415               | 52419               | 52418               | 52418               | 55354               | 55340               | 55336               | 55333               | 55339               |
|                  |                          | S/T                 | 0.79                | 0.90                | 1.00                | 1.00                | 1.00                | 0.64                | 0.75                | 0.84                | 0.85                | 0.96                | 0.54                | 0.65                | 0.73                | 0.75                | 0.85                | 0.39                | 0.47                | 0.55                | 0.57                | 0.67                |
|                  |                          | PI                  | 4.73                | 4.74                | 4.83                | 4.86                | 5.06                | 5.05                | 5.05                | 5.05                | 5.05                | 5.08                | 5.28                | 5.28                | 5.28                | 5.28                | 5.28                | 5.76                | 5.76                | 5.75                | 5.75                | 5.76                |
|                  | 50°F<br>10.0°C           | TC                  | 47798               | 49114               | 50771               | 51065               | 53045               | 50496               | 50524               | 50873               | 51034               | 53096               | 52466               | 52535               | 52562               | 52565               | 53071               | 56083               | 56231               | 56375               | 56392               | 56463               |
|                  |                          | S/T                 | 0.90                | 1.00                | 1.00                | 1.00                | 1.00                | 0.71                | 0.85                | 0.96                | 0.99                | 1.00                | 0.59                | 0.72                | 0.83                | 0.85                | 0.99                | 0.40                | 0.50                | 0.60                | 0.62                | 0.74                |
|                  |                          | PI                  | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.31                | 5.30                | 5.30                | 5.30                | 5.30                | 5.30                |
|                  | 59°F<br>15.0°C           | TC                  | 48036               | 49721               | 51486               | 51799               | 53907               | 50824               | 50894               | 51471               | 51854               | 53960               | 52921               | 52974               | 52993               | 53070               | 54004               | 56826               | 56940               | 57054               | 57066               | 57114               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.73                | 0.86                | 1.00                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 5.35                | 5.37                | 5.38                | 5.38                | 5.40                | 5.38                | 5.38                | 5.38                | 5.38                | 5.40                | 5.39                | 5.39                | 5.39                | 5.39                | 5.40                | 5.43                | 5.43                | 5.43                | 5.43                | 5.42                |
|                  | 68°F<br>20.0°C           | TC                  | 48249               | 50308               | 52174               | 52506               | 54733               | 51079               | 51194               | 52231               | 52562               | 54788               | 53287               | 53327               | 53423               | 53470               | 54833               | 57417               | 57524               | 57614               | 57623               | 57653               |
|                  |                          | S/T                 | 0.95                | 1.00                | 1.00                | 1.00                | 1.00                | 0.74                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.89                | 1.00                | 0.40                | 0.51                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 5.40                | 5.43                | 5.46                | 5.46                | 5.50                | 5.44                | 5.44                | 5.46                | 5.46                | 5.50                | 5.48                | 5.48                | 5.48                | 5.48                | 5.50                | 5.56                | 5.55                | 5.55                | 5.55                | 5.54                |
|                  | 77°F<br>25.0°C           | TC                  | 48420               | 50751               | 52738               | 53089               | 55461               | 51331               | 51494               | 52795               | 53148               | 55517               | 53656               | 53717               | 53854               | 53914               | 55564               | 57951               | 58127               | 58261               | 58276               | 58330               |
|                  |                          | S/T                 | 0.97                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.90                | 1.00                | 1.00                | 1.00                | 0.61                | 0.76                | 0.88                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.79                |
|                  |                          | PI                  | 5.49                | 5.52                | 5.55                | 5.55                | 5.58                | 5.53                | 5.53                | 5.55                | 5.55                | 5.58                | 5.56                | 5.56                | 5.56                | 5.56                | 5.58                | 5.63                | 5.62                | 5.62                | 5.62                | 5.61                |
|                  | 82°F<br>27.8°C           | TC                  | 48248               | 50711               | 52756               | 53114               | 55546               | 51128               | 51325               | 52802               | 53174               | 55605               | 53506               | 53574               | 53740               | 53807               | 55653               | 57851               | 58069               | 58220               | 58236               | 58299               |
|                  |                          | S/T                 | 0.99                | 1.00                | 1.00                | 1.00                | 1.00                | 0.76                | 0.91                | 1.00                | 1.00                | 1.00                | 0.62                | 0.77                | 0.89                | 0.92                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.80                |
|                  |                          | PI                  | 5.48                | 5.51                | 5.53                | 5.53                | 5.56                | 5.51                | 5.51                | 5.53                | 5.53                | 5.56                | 5.54                | 5.54                | 5.54                | 5.54                | 5.56                | 5.60                | 5.60                | 5.59                | 5.59                | 5.59                |
|                  | 86°F<br>30.0°C           | TC                  | 47937               | 50330               | 52389               | 52754               | 55211               | 50554               | 50786               | 52447               | 52814               | 55268               | 52950               | 53010               | 53205               | 53282               | 55316               | 57324               | 57545               | 57682               | 57696               | 57750               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.77                | 0.93                | 1.00                | 1.00                | 1.00                | 0.62                | 0.78                | 0.91                | 0.93                | 1.00                | 0.40                | 0.52                | 0.64                | 0.66                | 0.81                |
|                  |                          | PI                  | 5.37                | 5.40                | 5.42                | 5.43                | 5.46                | 5.40                | 5.40                | 5.42                | 5.43                | 5.46                | 5.44                | 5.43                | 5.43                | 5.44                | 5.46                | 5.51                | 5.50                | 5.49                | 5.49                | 5.49                |
|                  | 95°F<br>35.0°C           | TC                  | 46876               | 47129               | 48652               | 48940               | 50875               | 49819               | 49848               | 49864               | 49923               | 50939               | 51957               | 51968               | 52000               | 52005               | 52091               | 55986               | 55965               | 55976               | 55992               | 56068               |
|                  |                          | S/T                 | 0.83                | 0.95                | 1.00                | 1.00                | 1.00                | 0.66                | 0.78                | 0.88                | 0.89                | 1.00                | 0.56                | 0.67                | 0.76                | 0.78                | 0.88                | 0.39                | 0.48                | 0.57                | 0.58                | 0.68                |
|                  |                          | PI                  | 4.93                | 4.94                | 5.02                | 5.04                | 5.14                | 5.09                | 5.09                | 5.09                | 5.09                | 5.14                | 5.20                | 5.20                | 5.20                | 5.20                | 5.21                | 5.41                | 5.41                | 5.41                | 5.41                | 5.41                |
|                  | 104°F<br>40.0°C          | TC                  | 41239               | 41617               | 43183               | 43443               | 45176               | 43837               | 43862               | 43939               | 43987               | 45232               | 45708               | 45726               | 45750               | 45752               | 45882               | 49266               | 49247               | 49270               | 49287               | 49339               |
|                  |                          | S/T                 | 0.85                | 0.98                | 1.00                | 1.00                | 1.00                | 0.68                | 0.80                | 0.90                | 0.92                | 1.00                | 0.56                | 0.68                | 0.78                | 0.80                | 0.91                | 0.39                | 0.48                | 0.58                | 0.59                | 0.70                |
|                  |                          | PI                  | 4.80                | 4.82                | 4.91                | 4.92                | 5.02                | 4.95                | 4.95                | 4.95                | 4.95                | 5.02                | 5.05                | 5.05                | 5.05                | 5.05                | 5.06                | 5.26                | 5.26                | 5.26                | 5.26                | 5.26                |
|                  | 110°F<br>43.0°C          | TC                  | 37712               | 39161               | 40654               | 40918               | 42690               | 40150               | 40162               | 40610               | 40966               | 42735               | 41957               | 41990               | 42000               | 42032               | 42772               | 45413               | 45416               | 45487               | 45494               | 45519               |
|                  |                          | S/T                 | 0.92                | 1.00                | 1.00                | 1.00                | 1.00                | 0.72                | 0.87                | 0.99                | 1.00                | 1.00                | 0.60                | 0.73                | 0.85                | 0.86                | 1.00                | 0.40                | 0.51                | 0.61                | 0.63                | 0.76                |
|                  |                          | PI                  | 4.77                | 4.84                | 4.90                | 4.92                | 4.99                | 4.88                | 4.88                | 4.90                | 4.92                | 5.00                | 4.97                | 4.96                | 4.96                | 4.96                | 5.00                | 5.13                | 5.13                | 5.13                | 5.12                | 5.12                |
|                  | 115°F<br>46.0°C          | TC                  | 33112               | 34707               | 36078               | 36347               | 37948               | 35212               | 35282               | 36119               | 36393               | 37986               | 36854               | 36876               | 36927               | 36963               | 38019               | 39960               | 39990               | 40046               | 40051               | 40063               |
|                  |                          | S/T                 | 0.96                | 1.00                | 1.00                | 1.00                | 1.00                | 0.75                | 0.89                | 1.00                | 1.00                | 1.00                | 0.61                | 0.75                | 0.87                | 0.90                | 1.00                | 0.40                | 0.52                | 0.63                | 0.65                | 0.78                |
|                  |                          | PI                  | 4.30                | 4.36                | 4.41                | 4.43                | 4.49                | 4.38                | 4.38                | 4.42                | 4.44                | 4.49                | 4.45                | 4.45                | 4.45                | 4.45                | 4.49                | 4.58                | 4.58                | 4.57                | 4.57                | 4.57                |
|                  | 122°F<br>50.0°C          | TC                  | 27310               | 28816               | 30107               | 30332               | 31863               | 28181               | 28847               | 30141               | 30365               | 31893               | 29677               | 29669               | 30162               | 30389               | 31913               | 32406               | 32531               | 32539               | 32536               | 32579               |
|                  |                          | S/T                 | 1.00                | 1.00                | 1.00                | 1.00                | 1.00                | 0.84                | 1.00                | 1.00                | 1.00                | 1.00                | 0.67                | 0.85                | 1.00                | 1.00                | 1.00                | 0.41                | 0.55                | 0.69                | 0.72                | 0.88                |
|                  |                          | PI                  | 3.70                | 3.73                | 3.76                | 3.76                | 3.80                | 3.72                | 3.73                | 3.76                | 3.77                | 3.80                | 3.76                | 3.75                | 3.76                | 3.77                | 3.80                | 3.84                | 3.82                | 3.82                | 3.82                | 3.81                |

## COOLING PERFORMANCE 55K

Table 17: COOLING PERFORMANCE 55K - DUCTED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735              | -22°F<br>-30.0°C         | TC                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                                         | 29459            | 29455            | 29451            | 29450            | 29445            | 30830            | 30822            | 30817            | 30816            | 30810            | 31802            | 31794            | 31787            | 31786            | 31779            | 33626            | 33617            | 33609            | 33608            | 33597            |
|                  |                          | S/T                                        | 0.72             | 0.8              | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.6              |
|                  |                          | PI                                         | 3.93             | 3.93             | 3.93             | 3.93             | 3.94             | 3.89             | 3.89             | 3.89             | 3.89             | 3.89             | 3.87             | 3.87             | 3.87             | 3.87             | 3.87             | 3.85             | 3.85             | 3.85             | 3.85             | 3.85             |
|                  | -4°F<br>-20.0°C          | TC                                         | 31725            | 31720            | 31716            | 31716            | 31710            | 33202            | 33193            | 33188            | 33187            | 33181            | 34249            | 34240            | 34232            | 34231            | 34223            | 36213            | 36203            | 36195            | 36193            | 36182            |
|                  |                          | S/T                                        | 0.72             | 0.8              | 0.88             | 0.89             | 0.97             | 0.6              | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.6              |
|                  |                          | PI                                         | 4.07             | 4.07             | 4.07             | 4.07             | 4.08             | 4.03             | 4.03             | 4.03             | 4.03             | 4.03             | 4                | 4.01             | 4.01             | 4.01             | 4.01             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             |
|                  | 0°F<br>-17.8°C           | TC                                         | 32757            | 32751            | 32746            | 32745            | 32735            | 34267            | 34260            | 34253            | 34251            | 34242            | 35337            | 35327            | 35319            | 35317            | 35306            | 37330            | 37320            | 37313            | 37312            | 37297            |
|                  |                          | S/T                                        | 0.72             | 0.81             | 0.88             | 0.9              | 0.98             | 0.6              | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.6              | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.6              |
|                  |                          | PI                                         | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.08             | 4.08             | 4.08             | 4.08             | 4.08             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.08             | 4.08             | 4.08             | 4.08             | 4.08             |
|                  | 5°F<br>-15.0°C           | TC                                         | 33785            | 33785            | 33785            | 33785            | 34290            | 35472            | 35466            | 35464            | 35465            | 35468            | 36685            | 36683            | 36677            | 36676            | 36679            | 39010            | 39000            | 38991            | 38989            | 38989            |
|                  |                          | S/T                                        | 0.73             | 0.82             | 0.9              | 0.91             | 1                | 0.6              | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.6              | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 4.15             | 4.15             | 4.15             | 4.15             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.19             | 4.19             | 4.19             | 4.19             | 4.19             |
|                  | 14°F<br>-10.0°C          | TC                                         | 34598            | 34593            | 34589            | 34588            | 34757            | 36414            | 36405            | 36399            | 36398            | 36391            | 37712            | 37703            | 37693            | 37692            | 37684            | 40176            | 40164            | 40155            | 40153            | 40140            |
|                  |                          | S/T                                        | 0.73             | 0.81             | 0.89             | 0.9              | 0.99             | 0.6              | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.6              | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.6              |
|                  |                          | PI                                         | 4.05             | 4.06             | 4.06             | 4.06             | 4.05             | 4.02             | 4.02             | 4.03             | 4.03             | 4.03             | 4.01             | 4.01             | 4.01             | 4.01             | 4.01             | 4                | 4                | 4                | 4                | 4                |
|                  | 17°F<br>-8.3°C           | TC                                         | 34894            | 34887            | 34882            | 34881            | 35384            | 36724            | 36716            | 36708            | 36707            | 36707            | 38038            | 38037            | 38032            | 38031            | 38037            | 40607            | 40596            | 40586            | 40584            | 40586            |
|                  |                          | S/T                                        | 0.73             | 0.82             | 0.89             | 0.91             | 1                | 0.6              | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.6              | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             |
|                  | 23°F<br>-5.0°C           | TC                                         | 34693            | 34694            | 34694            | 34717            | 35351            | 36560            | 36553            | 36553            | 36553            | 36557            | 37904            | 37901            | 37895            | 37895            | 37899            | 40487            | 40476            | 40466            | 40464            | 40465            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.9              | 0.91             | 1                | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.6              | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 3.7              | 3.7              | 3.7              | 3.7              | 3.7              | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             |
|                  | 35°F<br>1.7°C            | TC                                         | 34575            | 34572            | 34570            | 34570            | 34617            | 36366            | 36363            | 36359            | 36358            | 36355            | 37632            | 37625            | 37623            | 37622            | 37616            | 40002            | 39993            | 39986            | 39984            | 39982            |
|                  |                          | S/T                                        | 0.7              | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.5              | 0.51             | 0.58             |
|                  |                          | PI                                         | 2.95             | 2.95             | 2.95             | 2.95             | 2.96             | 3.11             | 3.11             | 3.11             | 3.11             | 3.11             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             |
|                  | 41°F<br>5.0°C            | TC                                         | 34725            | 34721            | 34719            | 34719            | 34800            | 36510            | 36506            | 36501            | 36500            | 36498            | 37771            | 37763            | 37760            | 37760            | 37753            | 40134            | 40125            | 40117            | 40116            | 40113            |
|                  |                          | S/T                                        | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                                         | 3.12             | 3.12             | 3.12             | 3.12             | 3.13             | 3.32             | 3.32             | 3.31             | 3.31             | 3.31             | 3.46             | 3.46             | 3.46             | 3.46             | 3.46             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             |
|                  | 47°F<br>8.3°C            | TC                                         | 34869            | 34865            | 34863            | 34862            | 34984            | 36649            | 36645            | 36640            | 36640            | 36637            | 37909            | 37900            | 37898            | 37897            | 37891            | 40263            | 40254            | 40246            | 40245            | 40241            |
|                  |                          | S/T                                        | 0.71             | 0.8              | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                          | PI                                         | 3.3              | 3.3              | 3.3              | 3.3              | 3.31             | 3.52             | 3.51             | 3.51             | 3.51             | 3.51             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             |
|                  | 50°F<br>10.0°C           | TC                                         | 34200            | 34205            | 34520            | 34801            | 36092            | 36269            | 36277            | 36287            | 36289            | 36422            | 37770            | 37773            | 37790            | 37793            | 37808            | 40679            | 40663            | 40669            | 40666            | 40702            |
|                  |                          | S/T                                        | 0.79             | 0.89             | 0.99             | 1                | 1                | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                                         | 3.68             | 3.68             | 3.68             | 3.68             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.69             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             |
|                  | 59°F<br>15.0°C           | TC                                         | 33744            | 33796            | 34461            | 34663            | 36018            | 35890            | 35897            | 35904            | 35905            | 36125            | 37460            | 37451            | 37466            | 37468            | 37479            | 40472            | 40455            | 40458            | 40457            | 40487            |
|                  |                          | S/T                                        | 0.8              | 0.91             | 1                | 1                | 1                | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                         | 3.68             | 3.68             | 3.68             | 3.68             | 3.7              | 3.7              | 3.7              | 3.7              | 3.7              | 3.7              | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             |
|                  | 68°F<br>20.0°C           | TC                                         | 33310            | 33419            | 34363            | 34574            | 35987            | 35523            | 35529            | 35534            | 35534            | 35961            | 37136            | 37129            | 37143            | 37144            | 37151            | 40241            | 40224            | 40225            | 40224            | 40255            |
|                  |                          | S/T                                        | 0.82             | 0.94             | 1                | 1                | 1                | 0.66             | 0.77             | 0.86             | 0.88             | 1                | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                         | 3.67             | 3.67             | 3.69             | 3.69             | 3.71             | 3.71             | 3.7              | 3.7              | 3.7              | 3.71             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.78             | 3.78             | 3.78             | 3.78             | 3.77             |
|                  | 77°F<br>25.0°C           | TC                                         | 32826            | 32988            | 34121            | 34343            | 35821            | 35123            | 35135            | 35142            | 35176            | 35873            | 36802            | 36799            | 36819            | 36821            | 36866            | 40034            | 40015            | 40020            | 40021            | 40067            |
|                  |                          | S/T                                        | 0.83             | 0.96             | 1                | 1                | 1                | 0.66             | 0.78             | 0.88             | 0.89             | 1                | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                                         | 3.7              | 3.7              | 3.72             | 3.72             | 3.74             | 3.73             | 3.73             | 3.73             | 3.73             | 3.74             | 3.75             | 3.75             | 3.75             | 3.75             | 3.75             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 17: COOLING PERFORMANCE 55K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 735              | 82°F<br>27.8°C           | TC                                         | 32845            | 33056            | 34324            | 34552            | 36078            | 35202            | 35219            | 35249            | 35279            | 36131            | 36928            | 36930            | 36951            | 36954            | 37017            | 40251            | 40231            | 40238            | 40242            | 40296            |
|                  |                          | S/T                                        | 0.84             | 0.97             | 1                | 1                | 1                | 0.67             | 0.79             | 0.88             | 0.9              | 1                | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                                         | 3.77             | 3.78             | 3.79             | 3.79             | 3.81             | 3.8              | 3.8              | 3.8              | 3.8              | 3.81             | 3.82             | 3.82             | 3.82             | 3.82             | 3.82             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             |
|                  | 86°F<br>30.0°C           | TC                                         | 33224            | 33514            | 34911            | 35147            | 36727            | 35653            | 35669            | 35718            | 35753            | 36780            | 37426            | 37431            | 37450            | 37453            | 37538            | 40843            | 40823            | 40830            | 40839            | 40890            |
|                  |                          | S/T                                        | 0.85             | 0.98             | 1                | 1                | 1                | 0.67             | 0.8              | 0.89             | 0.91             | 1                | 0.56             | 0.68             | 0.77             | 0.79             | 0.9              | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                                         | 3.9              | 3.9              | 3.92             | 3.93             | 3.95             | 3.93             | 3.93             | 3.93             | 3.93             | 3.95             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 4                | 4                | 4                | 4                | 4                |
|                  | 95°F<br>35.0°C           | TC                                         | 34599            | 34598            | 34601            | 34640            | 35527            | 36916            | 36906            | 36904            | 36904            | 36912            | 38586            | 38583            | 38574            | 38574            | 38575            | 41815            | 41800            | 41789            | 41787            | 41787            |
|                  |                          | S/T                                        | 0.74             | 0.83             | 0.91             | 0.92             | 1                | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.6              | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                                         | 4.04             | 4.04             | 4.04             | 4.05             | 4.09             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.26             | 4.26             | 4.26             | 4.26             | 4.26             | 4.44             | 4.44             | 4.44             | 4.44             | 4.44             |
|                  | 104°F<br>40.0°C          | TC                                         | 29287            | 29288            | 29341            | 29380            | 30361            | 31244            | 31236            | 31236            | 31236            | 31242            | 32656            | 32653            | 32646            | 32646            | 32650            | 35382            | 35369            | 35360            | 35358            | 35358            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1                | 0.61             | 0.71             | 0.78             | 0.8              | 0.89             | 0.52             | 0.61             | 0.69             | 0.7              | 0.79             | 0.39             | 0.45             | 0.52             | 0.54             | 0.62             |
|                  |                          | PI                                         | 3.49             | 3.49             | 3.49             | 3.49             | 3.55             | 3.6              | 3.6              | 3.6              | 3.59             | 3.59             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.83             | 3.82             | 3.82             | 3.82             | 3.82             |
|                  | 110°F<br>43.0°C          | TC                                         | 25932            | 25969            | 26553            | 26724            | 27850            | 27768            | 27764            | 27770            | 27770            | 27929            | 29089            | 29086            | 29089            | 29090            | 29098            | 31640            | 31627            | 31626            | 31627            | 31625            |
|                  |                          | S/T                                        | 0.8              | 0.91             | 1                | 1                | 1                | 0.64             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                                         | 3.19             | 3.2              | 3.21             | 3.22             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             |
|                  | 115°F<br>46.0°C          | TC                                         | 22577            | 22663            | 23437            | 23590            | 24623            | 24216            | 24219            | 24222            | 24223            | 24660            | 25401            | 25399            | 25406            | 25407            | 25409            | 27683            | 27671            | 27669            | 27667            | 27679            |
|                  |                          | S/T                                        | 0.83             | 0.95             | 1                | 1                | 1                | 0.66             | 0.77             | 0.87             | 0.89             | 1                | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                          | PI                                         | 2.91             | 2.91             | 2.94             | 2.95             | 2.98             | 2.97             | 2.97             | 2.97             | 2.97             | 2.99             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.1              | 3.1              | 3.1              | 3.1              | 3.1              |
|                  | 122°F<br>50.0°C          | TC                                         | 18026            | 18805            | 19632            | 19774            | 20753            | 19441            | 19442            | 19612            | 19801            | 20781            | 20489            | 20495            | 20495            | 20495            | 20802            | 22517            | 22504            | 22519            | 22521            | 22526            |
|                  |                          | S/T                                        | 0.93             | 1                | 1                | 1                | 1                | 0.72             | 0.86             | 0.99             | 1                | 1                | 0.59             | 0.73             | 0.84             | 0.86             | 1                | 0.39             | 0.5              | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                                         | 2.55             | 2.57             | 2.58             | 2.59             | 2.61             | 2.58             | 2.58             | 2.58             | 2.59             | 2.61             | 2.61             | 2.6              | 2.6              | 2.6              | 2.61             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             |
| 1029             | -22°F<br>-30.0°C         | TC                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                                         | 34411            | 34403            | 34396            | 34396            | 35102            | 35960            | 35950            | 35940            | 35938            | 35927            | 37058            | 37046            | 37033            | 37031            | 37014            | 39118            | 39108            | 39092            | 39091            | 39066            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.93             | 1                | 0.61             | 0.7              | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.7              | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                          | PI                                         | 4.43             | 4.43             | 4.43             | 4.43             | 4.41             | 4.39             | 4.39             | 4.39             | 4.39             | 4.4              | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             |
|                  | -4°F<br>-20.0°C          | TC                                         | 37058            | 37050            | 37042            | 37041            | 37802            | 38726            | 38715            | 38705            | 38703            | 38690            | 39909            | 39896            | 39882            | 39879            | 39861            | 42127            | 42116            | 42099            | 42098            | 42071            |
|                  |                          | S/T                                        | 0.75             | 0.84             | 0.92             | 0.94             | 1                | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.7              | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 4.59             | 4.59             | 4.59             | 4.59             | 4.57             | 4.55             | 4.55             | 4.55             | 4.55             | 4.55             | 4.53             | 4.53             | 4.53             | 4.53             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             |
|                  | 0°F<br>-17.8°C           | TC                                         | 38269            | 38258            | 38250            | 38249            | 39202            | 39976            | 39962            | 39946            | 39944            | 39927            | 41182            | 41166            | 41148            | 41144            | 41119            | 43424            | 43415            | 43411            | 43408            | 43413            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1                | 0.62             | 0.71             | 0.79             | 0.8              | 0.9              | 0.53             | 0.62             | 0.7              | 0.71             | 0.8              | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 4.63             | 4.63             | 4.63             | 4.63             | 4.61             | 4.6              | 4.61             | 4.61             | 4.61             | 4.61             | 4.6              | 4.6              | 4.6              | 4.6              | 4.61             | 4.63             | 4.63             | 4.63             | 4.63             | 4.63             |
|                  | 5°F<br>-15.0°C           | TC                                         | 39433            | 39436            | 39560            | 39616            | 40775            | 41353            | 41351            | 41357            | 41358            | 41407            | 42730            | 42728            | 42731            | 42732            | 42740            | 45356            | 45344            | 45345            | 45342            | 45345            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1                | 0.62             | 0.72             | 0.8              | 0.81             | 0.9              | 0.53             | 0.62             | 0.7              | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.67             | 4.69             | 4.69             | 4.69             | 4.69             | 4.69             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             |
|                  | 14°F<br>-10.0°C          | TC                                         | 40405            | 40396            | 40388            | 40386            | 41533            | 42469            | 42456            | 42444            | 42442            | 42428            | 43944            | 43930            | 43914            | 43911            | 43891            | 46749            | 46735            | 46717            | 46715            | 46685            |
|                  |                          | S/T                                        | 0.75             | 0.85             | 0.93             | 0.95             | 1                | 0.62             | 0.71             | 0.79             | 0.8              | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                                         | 4.58             | 4.58             | 4.58             | 4.58             | 4.56             | 4.55             | 4.55             | 4.55             | 4.55             | 4.55             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             |
|                  | 17°F<br>-8.3°C           | TC                                         | 40723            | 40711            | 40817            | 40874            | 42099            | 42803            | 42788            | 42798            | 42800            | 42845            | 44302            | 44302            | 44309            | 44312            | 44325            | 47209            | 47195            | 47199            | 47197            | 47207            |
|                  |                          | S/T                                        | 0.76             | 0.86             | 0.94             | 0.96             | 1                | 0.62             | 0.72             | 0.8              | 0.81             | 0.9              | 0.53             | 0.62             | 0.7              | 0.71             | 0.8              | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                                         | 4.51             | 4.51             | 4.51             | 4.5              | 4.5              | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.49             | 4.51             | 4.51             | 4.51             | 4.51             | 4.51             |
|                  | 23°F<br>-5.0°C           | TC                                         | 40495            | 40499            | 40664            | 40736            | 42075            | 42620            | 42619            | 42627            | 42628            | 42696            | 44147            | 44146            | 44150            | 44152            | 44162            | 47072            | 47057            | 47060            | 47057            | 47064            |
|                  |                          | S/T                                        | 0.77             | 0.87             | 0.95             | 0.97             | 1                | 0.62             | 0.72             | 0.8              | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                                         | 4.18             | 4.18             | 4.18             | 4.18             | 4.19             | 4.19             | 4.19             | 4.2              | 4.2              | 4.2              | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             | 4.28             | 4.28             | 4.28             | 4.28             | 4.28             |

Table 17: COOLING PERFORMANCE 55K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1029             | 35°F<br>1.7°C            | TC                  | 40423            | 40420            | 40421            | 40421            | 40941            | 42433            | 42425            | 42422            | 42422            | 42424            | 43843            | 43840            | 43833            | 43832            | 43830            | 46479            | 46468            | 46459            | 46457            | 46455            |
|                  |                          | S/T                 | 0.73             | 0.81             | 0.89             | 0.9              | 1                | 0.6              | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.6              | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.6              |
|                  |                          | PI                  | 3.33             | 3.33             | 3.33             | 3.33             | 3.38             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             |
|                  | 41°F<br>5.0°C            | TC                  | 40490            | 40588            | 40588            | 40600            | 41269            | 42595            | 42587            | 42584            | 42585            | 42585            | 44004            | 44000            | 43993            | 43992            | 43990            | 46632            | 46621            | 46611            | 46609            | 46606            |
|                  |                          | S/T                 | 0.74             | 0.82             | 0.9              | 0.91             | 1                | 0.6              | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.6              | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                          | PI                  | 3.52             | 3.53             | 3.53             | 3.53             | 3.6              | 3.75             | 3.75             | 3.75             | 3.75             | 3.75             | 3.92             | 3.92             | 3.92             | 3.92             | 3.92             | 4.27             | 4.27             | 4.27             | 4.27             | 4.27             |
|                  | 47°F<br>8.3°C            | TC                  | 40755            | 40753            | 40753            | 40793            | 41596            | 42755            | 42747            | 42744            | 42744            | 42745            | 44164            | 44159            | 44153            | 44152            | 44151            | 46788            | 46777            | 46768            | 46766            | 46762            |
|                  |                          | S/T                 | 0.74             | 0.83             | 0.91             | 0.92             | 1                | 0.61             | 0.7              | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                          | PI                  | 3.73             | 3.73             | 3.73             | 3.74             | 3.83             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 4.17             | 4.17             | 4.16             | 4.16             | 4.16             | 4.55             | 4.54             | 4.54             | 4.54             | 4.54             |
|                  | 50°F<br>10.0°C           | TC                  | 39893            | 40062            | 41193            | 41427            | 42993            | 42261            | 42287            | 42298            | 42342            | 43047            | 43977            | 44001            | 44027            | 44031            | 44095            | 47252            | 47234            | 47289            | 47302            | 47366            |
|                  |                          | S/T                 | 0.83             | 0.95             | 1                | 1                | 1                | 0.66             | 0.78             | 0.87             | 0.88             | 1                | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                          | PI                  | 4.17             | 4.17             | 4.18             | 4.18             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             |
|                  | 59°F<br>15.0°C           | TC                  | 39363            | 39644            | 41045            | 41290            | 42932            | 41826            | 41846            | 41909            | 41948            | 42986            | 43607            | 43629            | 43650            | 43652            | 43759            | 47030            | 47010            | 47057            | 47067            | 47116            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1                | 1                | 1                | 0.67             | 0.79             | 0.89             | 0.91             | 1                | 0.56             | 0.68             | 0.77             | 0.79             | 0.9              | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 4.16             | 4.17             | 4.18             | 4.18             | 4.19             | 4.18             | 4.18             | 4.18             | 4.18             | 4.19             | 4.2              | 4.2              | 4.2              | 4.2              | 4.2              | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             |
|                  | 68°F<br>20.0°C           | TC                  | 38857            | 39510            | 40946            | 41201            | 42912            | 41401            | 41416            | 41531            | 41581            | 42967            | 43236            | 43259            | 43273            | 43275            | 43443            | 46773            | 46753            | 46798            | 46807            | 46845            |
|                  |                          | S/T                 | 0.87             | 1                | 1                | 1                | 1                | 0.69             | 0.81             | 0.91             | 0.93             | 1                | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.6              | 0.71             |
|                  |                          | PI                  | 4.15             | 4.16             | 4.19             | 4.19             | 4.22             | 4.19             | 4.19             | 4.2              | 4.2              | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             | 4.28             | 4.28             | 4.27             | 4.27             | 4.27             |
|                  | 77°F<br>25.0°C           | TC                  | 38291            | 39184            | 40685            | 40952            | 42743            | 40938            | 40957            | 41115            | 41182            | 42798            | 42837            | 42875            | 42896            | 42898            | 43120            | 46512            | 46490            | 46564            | 46576            | 46629            |
|                  |                          | S/T                 | 0.88             | 1                | 1                | 1                | 1                | 0.69             | 0.82             | 0.93             | 0.95             | 1                | 0.57             | 0.7              | 0.8              | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.6              | 0.72             |
|                  |                          | PI                  | 4.19             | 4.2              | 4.22             | 4.22             | 4.24             | 4.22             | 4.22             | 4.22             | 4.23             | 4.24             | 4.25             | 4.25             | 4.25             | 4.25             | 4.25             | 4.29             | 4.29             | 4.29             | 4.29             | 4.29             |
|                  | 82°F<br>27.8°C           | TC                  | 38343            | 39385            | 40935            | 41210            | 43058            | 41031            | 41053            | 41251            | 41332            | 43116            | 42981            | 43027            | 43050            | 43053            | 43324            | 46756            | 46764            | 46823            | 46836            | 46897            |
|                  |                          | S/T                 | 0.88             | 1                | 1                | 1                | 1                | 0.7              | 0.83             | 0.94             | 0.96             | 1                | 0.58             | 0.7              | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                          | PI                  | 4.27             | 4.29             | 4.3              | 4.31             | 4.33             | 4.31             | 4.31             | 4.31             | 4.31             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             |
|                  | 86°F<br>30.0°C           | TC                  | 38813            | 40038            | 41643            | 41927            | 43839            | 41560            | 41581            | 41829            | 41940            | 43897            | 43565            | 43611            | 43632            | 43635            | 43972            | 47448            | 47451            | 47520            | 47533            | 47588            |
|                  |                          | S/T                 | 0.9              | 1                | 1                | 1                | 1                | 0.71             | 0.84             | 0.96             | 0.98             | 1                | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.5              | 0.6              | 0.61             | 0.73             |
|                  |                          | PI                  | 4.42             | 4.43             | 4.45             | 4.46             | 4.48             | 4.45             | 4.45             | 4.46             | 4.46             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             | 4.53             | 4.53             | 4.53             | 4.53             | 4.53             |
|                  | 95°F<br>35.0°C           | TC                  | 40403            | 40411            | 40633            | 40737            | 42417            | 43044            | 43039            | 43050            | 43052            | 43128            | 44943            | 44942            | 44941            | 44943            | 44963            | 48606            | 48589            | 48575            | 48597            | 48584            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.96             | 0.98             | 1                | 0.63             | 0.72             | 0.8              | 0.82             | 0.91             | 0.53             | 0.62             | 0.7              | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                          | PI                  | 4.58             | 4.58             | 4.59             | 4.59             | 4.68             | 4.72             | 4.72             | 4.72             | 4.72             | 4.72             | 4.82             | 4.82             | 4.82             | 4.82             | 4.82             | 5.03             | 5.02             | 5.02             | 5.03             | 5.02             |
|                  | 104°F<br>40.0°C          | TC                  | 34193            | 34198            | 34550            | 34868            | 36242            | 36423            | 36421            | 36432            | 36433            | 36564            | 38033            | 38031            | 38034            | 38037            | 38052            | 41123            | 41109            | 41096            | 41109            | 41106            |
|                  |                          | S/T                 | 0.79             | 0.89             | 0.99             | 1                | 1                | 0.63             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                          | PI                  | 3.95             | 3.95             | 3.97             | 3.99             | 4.06             | 4.07             | 4.07             | 4.07             | 4.07             | 4.08             | 4.16             | 4.16             | 4.16             | 4.16             | 4.16             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             |
|                  | 110°F<br>43.0°C          | TC                  | 30269            | 30499            | 31675            | 31879            | 33239            | 32360            | 32371            | 32400            | 32429            | 33285            | 33877            | 33877            | 33890            | 33891            | 33951            | 36771            | 36760            | 36760            | 36763            | 36791            |
|                  |                          | S/T                 | 0.85             | 0.97             | 1                | 1                | 1                | 0.67             | 0.79             | 0.89             | 0.91             | 1                | 0.56             | 0.68             | 0.77             | 0.79             | 0.9              | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                          | PI                  | 3.61             | 3.63             | 3.67             | 3.68             | 3.73             | 3.7              | 3.7              | 3.7              | 3.7              | 3.73             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             | 3.88             | 3.88             | 3.88             | 3.88             | 3.88             |
|                  | 115°F<br>46.0°C          | TC                  | 26349            | 26912            | 27963            | 28148            | 29391            | 28227            | 28236            | 28313            | 28352            | 29431            | 29582            | 29589            | 29599            | 29600            | 29711            | 32180            | 32166            | 32176            | 32183            | 32207            |
|                  |                          | S/T                 | 0.88             | 1                | 1                | 1                | 1                | 0.69             | 0.82             | 0.92             | 0.94             | 1                | 0.57             | 0.69             | 0.8              | 0.82             | 0.94             | 0.39             | 0.49             | 0.58             | 0.6              | 0.71             |
|                  |                          | PI                  | 3.29             | 3.31             | 3.35             | 3.36             | 3.4              | 3.36             | 3.36             | 3.36             | 3.37             | 3.4              | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             |
|                  | 122°F<br>50.0°C          | TC                  | 21192            | 22387            | 23378            | 23553            | 24730            | 22626            | 22684            | 23407            | 23583            | 24758            | 23834            | 23840            | 23878            | 23904            | 24782            | 26140            | 26148            | 26170            | 26172            | 26168            |
|                  |                          | S/T                 | 1                | 1                | 1                | 1                | 1                | 0.76             | 0.92             | 1                | 1                | 1                | 0.62             | 0.77             | 0.89             | 0.92             | 1                | 0.4              | 0.52             | 0.64             | 0.66             | 0.79             |
|                  |                          | PI                  | 2.89             | 2.92             | 2.94             | 2.94             | 2.97             | 2.92             | 2.92             | 2.94             | 2.94             | 2.97             | 2.95             | 2.95             | 2.95             | 2.95             | 2.97             | 3.01             | 3                | 3                | 3                | 3                |

Table 17: COOLING PERFORMANCE 55K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324             | -22°F<br>-30.0°C         | TC                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | S/T                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                          | PI                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -13°F<br>-25.0°C         | TC                  | 40176            | 40162            | 40151            | 40384            | 41573            | 41945            | 41922            | 41903            | 41900            | 41871            | 43197            | 43174            | 43146            | 43141            | 43111            | 45567            | 45555            | 45521            | 45510            | 45442            |
|                  |                          | S/T                 | 0.77             | 0.88             | 0.97             | 1                | 1                | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 5.05             | 5.05             | 5.05             | 5.04             | 5.02             | 5.01             | 5.01             | 5.02             | 5.02             | 5.02             | 5                | 5                | 5                | 5                | 5.01             | 5.02             | 5.02             | 5.02             | 5.02             | 5.02             |
|                  | -4°F<br>-20.0°C          | TC                  | 43266            | 43251            | 43239            | 43490            | 44771            | 45171            | 45146            | 45126            | 45123            | 45091            | 46519            | 46495            | 46464            | 46459            | 46427            | 49072            | 49059            | 49023            | 49011            | 48938            |
|                  |                          | S/T                 | 0.78             | 0.88             | 0.97             | 1                | 1                | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 5.23             | 5.23             | 5.23             | 5.22             | 5.2              | 5.19             | 5.19             | 5.19             | 5.19             | 5.2              | 5.18             | 5.18             | 5.18             | 5.18             | 5.18             | 5.2              | 5.2              | 5.2              | 5.2              | 5.2              |
|                  | 0°F<br>-17.8°C           | TC                  | 44694            | 44675            | 44847            | 45190            | 46441            | 46643            | 46608            | 46581            | 46576            | 46568            | 48011            | 47983            | 47940            | 47933            | 47890            | 50598            | 50583            | 50586            | 50591            | 50629            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1                | 1                | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 5.27             | 5.27             | 5.27             | 5.27             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             |
|                  | 5°F<br>-15.0°C           | TC                  | 46009            | 46050            | 46671            | 46885            | 48319            | 48197            | 48207            | 48212            | 48213            | 48450            | 49774            | 49770            | 49783            | 49784            | 49791            | 52748            | 52733            | 52733            | 52737            | 52766            |
|                  |                          | S/T                 | 0.79             | 0.9              | 1                | 1                | 1                | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 5.31             | 5.32             | 5.32             | 5.32             | 5.33             | 5.33             | 5.33             | 5.33             | 5.33             | 5.33             | 5.36             | 5.36             | 5.36             | 5.36             | 5.36             | 5.46             | 5.46             | 5.46             | 5.46             | 5.47             |
|                  | 14°F<br>-10.0°C          | TC                  | 47148            | 47131            | 47326            | 47740            | 49221            | 49515            | 49487            | 49463            | 49459            | 49433            | 51226            | 51202            | 51162            | 51155            | 51112            | 54447            | 54431            | 54391            | 54379            | 54295            |
|                  |                          | S/T                 | 0.78             | 0.89             | 0.99             | 1                | 1                | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                          | PI                  | 5.22             | 5.23             | 5.22             | 5.22             | 5.21             | 5.2              | 5.2              | 5.2              | 5.2              | 5.2              | 5.19             | 5.19             | 5.19             | 5.19             | 5.19             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             |
|                  | 17°F<br>-8.3°C           | TC                  | 47586            | 47598            | 48181            | 48459            | 50019            | 49975            | 49979            | 49990            | 49991            | 50228            | 51568            | 51589            | 51622            | 51624            | 51637            | 54998            | 54981            | 54987            | 54998            | 55048            |
|                  |                          | S/T                 | 0.79             | 0.89             | 1                | 1                | 1                | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                          | PI                  | 5.14             | 5.14             | 5.14             | 5.14             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.13             | 5.17             | 5.17             | 5.17             | 5.17             | 5.17             |
|                  | 23°F<br>-5.0°C           | TC                  | 47246            | 47312            | 48082            | 48318            | 49897            | 49671            | 49684            | 49690            | 49692            | 49986            | 51423            | 51421            | 51437            | 51439            | 51447            | 54738            | 54721            | 54723            | 54730            | 54768            |
|                  |                          | S/T                 | 0.8              | 0.91             | 1                | 1                | 1                | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                          | PI                  | 4.76             | 4.76             | 4.77             | 4.77             | 4.79             | 4.79             | 4.79             | 4.79             | 4.79             | 4.8              | 4.82             | 4.82             | 4.82             | 4.82             | 4.82             | 4.9              | 4.9              | 4.9              | 4.9              | 4.91             |
|                  | 35°F<br>1.7°C            | TC                  | 47220            | 47222            | 47313            | 47366            | 48583            | 49486            | 49479            | 49481            | 49482            | 49483            | 51076            | 51073            | 51067            | 51067            | 51073            | 54034            | 54022            | 54010            | 54018            | 54008            |
|                  |                          | S/T                 | 0.75             | 0.85             | 0.93             | 0.94             | 1                | 0.62             | 0.71             | 0.79             | 0.8              | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.8              | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                          | PI                  | 3.8              | 3.8              | 3.81             | 3.81             | 3.93             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.2              | 4.2              | 4.2              | 4.2              | 4.2              | 4.56             | 4.56             | 4.56             | 4.56             | 4.56             |
|                  | 41°F<br>5.0°C            | TC                  | 47411            | 47412            | 47543            | 47607            | 48958            | 49674            | 49668            | 49670            | 49670            | 49714            | 51263            | 51258            | 51254            | 51254            | 51260            | 54215            | 54202            | 54191            | 54197            | 54189            |
|                  |                          | S/T                 | 0.76             | 0.86             | 0.94             | 0.96             | 1                | 0.62             | 0.72             | 0.8              | 0.81             | 0.9              | 0.53             | 0.62             | 0.7              | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                          | PI                  | 4.03             | 4.04             | 4.05             | 4.06             | 4.2              | 4.28             | 4.28             | 4.28             | 4.28             | 4.29             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             |
|                  | 47°F<br>8.3°C            | TC                  | 47597            | 47597            | 47780            | 47864            | 49336            | 49862            | 49855            | 49856            | 49856            | 49932            | 51450            | 51444            | 51440            | 51441            | 51444            | 54402            | 54388            | 54384            | 54383            | 54375            |
|                  |                          | S/T                 | 0.77             | 0.87             | 0.95             | 0.97             | 1                | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                          | PI                  | 4.27             | 4.27             | 4.29             | 4.3              | 4.48             | 4.55             | 4.55             | 4.55             | 4.55             | 4.56             | 4.76             | 4.76             | 4.76             | 4.76             | 4.76             | 5.19             | 5.19             | 5.19             | 5.19             | 5.19             |
|                  | 50°F<br>10.0°C           | TC                  | 46525            | 47285            | 48865            | 49144            | 51027            | 49258            | 49288            | 49447            | 49511            | 51087            | 51198            | 51264            | 51294            | 51297            | 51528            | 54886            | 54913            | 55046            | 55062            | 55135            |
|                  |                          | S/T                 | 0.87             | 1                | 1                | 1                | 1                | 0.69             | 0.81             | 0.92             | 0.94             | 1                | 0.57             | 0.69             | 0.8              | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.6              | 0.71             |
|                  |                          | PI                  | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.77             | 4.76             | 4.76             | 4.76             | 4.76             | 4.76             |
|                  | 59°F<br>15.0°C           | TC                  | 45951            | 47057            | 48713            | 49006            | 50978            | 48755            | 48776            | 49018            | 49113            | 51037            | 50779            | 50834            | 50854            | 50857            | 51192            | 54657            | 54672            | 54779            | 54791            | 54845            |
|                  |                          | S/T                 | 0.88             | 1                | 1                | 1                | 1                | 0.7              | 0.83             | 0.94             | 0.97             | 1                | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.5              | 0.59             | 0.61             | 0.73             |
|                  |                          | PI                  | 4.76             | 4.77             | 4.78             | 4.78             | 4.8              | 4.78             | 4.78             | 4.78             | 4.78             | 4.8              | 4.8              | 4.8              | 4.8              | 4.8              | 4.8              | 4.83             | 4.83             | 4.83             | 4.83             | 4.82             |
|                  | 68°F<br>20.0°C           | TC                  | 45420            | 46885            | 48611            | 48917            | 50974            | 48259            | 48274            | 48652            | 48970            | 51031            | 50359            | 50401            | 50415            | 50416            | 50990            | 54377            | 54395            | 54483            | 54492            | 54531            |
|                  |                          | S/T                 | 0.91             | 1                | 1                | 1                | 1                | 0.72             | 0.85             | 0.97             | 1                | 1                | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.4              | 0.5              | 0.61             | 0.62             | 0.75             |
|                  |                          | PI                  | 4.75             | 4.77             | 4.8              | 4.8              | 4.83             | 4.79             | 4.79             | 4.8              | 4.8              | 4.83             | 4.83             | 4.83             | 4.82             | 4.82             | 4.83             | 4.89             | 4.89             | 4.89             | 4.89             | 4.88             |
|                  | 77°F<br>25.0°C           | TC                  | 44804            | 46520            | 48324            | 48645            | 50795            | 47717            | 47739            | 48288            | 48702            | 50854            | 49895            | 49952            | 49976            | 50033            | 50900            | 54039            | 54088            | 54209            | 54222            | 54281            |
|                  |                          | S/T                 | 0.92             | 1                | 1                | 1                | 1                | 0.72             | 0.87             | 0.99             | 1                | 1                | 0.59             | 0.73             | 0.85             | 0.86             | 1                | 0.4              | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 4.79             | 4.81             | 4.83             | 4.84             | 4.86             | 4.83             | 4.83             | 4.83             | 4.84             | 4.86             | 4.86             | 4.85             | 4.85             | 4.85             | 4.86             | 4.91             | 4.91             | 4.9              | 4.9              | 4.9              |

Table 17: COOLING PERFORMANCE 55K - DUCTED (Continued)

| AIRFL<br>OW<br>(CFM) | OUTD<br>OOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C)<br>ID DB<br>°F<br>(°C) | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|----------------------|------------------------------|--------------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                      |                              |                                            | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                      |                              |                                            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1324                 | 82°F<br>27.8°C               | TC                                         | 44864            | 46767            | 48630            | 48962            | 51188            | 47826            | 47903            | 48690            | 49021            | 51246            | 50063            | 50130            | 50155            | 50234            | 51293            | 54303            | 54372            | 54508            | 54523            | 54588            |
|                      |                              | S/T                                        | 0.94             | 1                | 1                | 1                | 1                | 0.73             | 0.87             | 1                | 1                | 1                | 0.6              | 0.74             | 0.86             | 0.87             | 1                | 0.4              | 0.51             | 0.62             | 0.63             | 0.76             |
|                      |                              | PI                                         | 4.89             | 4.91             | 4.93             | 4.93             | 4.96             | 4.92             | 4.92             | 4.93             | 4.93             | 4.96             | 4.95             | 4.95             | 4.95             | 4.95             | 4.96             | 5                | 5                | 4.99             | 4.99             | 4.99             |
|                      | 86°F<br>30.0°C               | TC                                         | 45388            | 47490            | 49417            | 49757            | 52076            | 48385            | 48486            | 49476            | 49817            | 52117            | 50693            | 50753            | 50833            | 50879            | 52166            | 55051            | 55130            | 55259            | 55273            | 55331            |
|                      |                              | S/T                                        | 0.95             | 1                | 1                | 1                | 1                | 0.74             | 0.88             | 1                | 1                | 1                | 0.6              | 0.75             | 0.86             | 0.88             | 1                | 0.4              | 0.51             | 0.62             | 0.64             | 0.77             |
|                      |                              | PI                                         | 5.05             | 5.08             | 5.1              | 5.11             | 5.14             | 5.09             | 5.09             | 5.1              | 5.11             | 5.14             | 5.12             | 5.12             | 5.12             | 5.12             | 5.14             | 5.19             | 5.18             | 5.18             | 5.18             | 5.17             |
|                      | 95°F<br>35.0°C               | TC                                         | 47145            | 47229            | 48243            | 48527            | 50430            | 50160            | 50173            | 50190            | 50192            | 50532            | 52326            | 52332            | 52358            | 52363            | 52386            | 56487            | 56467            | 56473            | 56471            | 56513            |
|                      |                              | S/T                                        | 0.8              | 0.91             | 1                | 1                | 1                | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                      |                              | PI                                         | 5.23             | 5.23             | 5.29             | 5.3              | 5.41             | 5.39             | 5.39             | 5.39             | 5.39             | 5.41             | 5.51             | 5.51             | 5.51             | 5.51             | 5.51             | 5.74             | 5.74             | 5.74             | 5.74             | 5.74             |
|                      | 104°F<br>40.0°C              | TC                                         | 39893            | 40036            | 41189            | 41432            | 43075            | 42446            | 42460            | 42471            | 42473            | 43033            | 44280            | 44288            | 44311            | 44315            | 44329            | 47800            | 47782            | 47792            | 47783            | 47829            |
|                      |                              | S/T                                        | 0.82             | 0.94             | 1                | 1                | 1                | 0.66             | 0.77             | 0.86             | 0.88             | 1                | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|                      |                              | PI                                         | 4.51             | 4.52             | 4.58             | 4.6              | 4.68             | 4.65             | 4.65             | 4.65             | 4.65             | 4.68             | 4.75             | 4.75             | 4.75             | 4.75             | 4.75             | 4.95             | 4.95             | 4.95             | 4.95             | 4.95             |
|                      | 110°F<br>43.0°C              | TC                                         | 35313            | 36268            | 37644            | 37888            | 39515            | 37724            | 37737            | 37902            | 37975            | 39559            | 39447            | 39470            | 39483            | 39484            | 39715            | 42759            | 42740            | 42783            | 42790            | 42822            |
|                      |                              | S/T                                        | 0.89             | 1                | 1                | 1                | 1                | 0.7              | 0.83             | 0.94             | 0.96             | 1                | 0.58             | 0.7              | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|                      |                              | PI                                         | 4.13             | 4.16             | 4.22             | 4.23             | 4.3              | 4.23             | 4.22             | 4.23             | 4.23             | 4.3              | 4.3              | 4.3              | 4.3              | 4.3              | 4.3              | 4.44             | 4.44             | 4.44             | 4.43             | 4.43             |
|                      | 115°F<br>46.0°C              | TC                                         | 30779            | 31938            | 33193            | 33416            | 34906            | 32875            | 32883            | 33170            | 33458            | 34946            | 34444            | 34475            | 34484            | 34485            | 34978            | 37381            | 37363            | 37421            | 37427            | 37446            |
|                      |                              | S/T                                        | 0.92             | 1                | 1                | 1                | 1                | 0.72             | 0.86             | 0.98             | 1                | 1                | 0.59             | 0.73             | 0.84             | 0.86             | 1                | 0.4              | 0.5              | 0.61             | 0.63             | 0.75             |
|                      |                              | PI                                         | 3.75             | 3.8              | 3.84             | 3.85             | 3.9              | 3.83             | 3.83             | 3.84             | 3.85             | 3.9              | 3.9              | 3.9              | 3.9              | 3.9              | 3.9              | 4                | 4                | 4                | 4                | 3.99             |
|                      | 122°F<br>50.0°C              | TC                                         | 25117            | 26493            | 27672            | 27882            | 29282            | 26281            | 26487            | 27704            | 27913            | 29312            | 27676            | 27674            | 27819            | 27902            | 29338            | 30289            | 30349            | 30365            | 30364            | 30348            |
|                      |                              | S/T                                        | 1                | 1                | 1                | 1                | 1                | 0.8              | 0.98             | 1                | 1                | 1                | 0.64             | 0.81             | 0.95             | 0.98             | 1                | 0.41             | 0.54             | 0.67             | 0.69             | 0.84             |
|                      |                              | PI                                         | 3.31             | 3.34             | 3.37             | 3.37             | 3.4              | 3.34             | 3.34             | 3.37             | 3.37             | 3.4              | 3.37             | 3.37             | 3.37             | 3.37             | 3.4              | 3.44             | 3.43             | 3.43             | 3.43             | 3.42             |
| 1618                 | -22°F<br>-30.0°C             | TC                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      |                              | S/T                                        |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      |                              | PI                                         |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                      | -13°F<br>-25.0°C             | TC                                         | 46883            | 46861            | 47530            | 47727            | 49040            | 48915            | 48875            | 48844            | 48839            | 48799            | 50378            | 50314            | 50267            | 50260            | 50212            | 53139            | 53124            | 53015            | 52995            | 52883            |
|                      |                              | S/T                                        | 0.8              | 0.91             | 1                | 1                | 1                | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                      |                              | PI                                         | 5.81             | 5.81             | 5.8              | 5.79             | 5.78             | 5.78             | 5.78             | 5.78             | 5.78             | 5.78             | 5.77             | 5.77             | 5.77             | 5.77             | 5.78             | 5.81             | 5.8              | 5.81             | 5.81             | 5.81             |
|                      | -4°F<br>-20.0°C              | TC                                         | 50489            | 50466            | 51186            | 51398            | 52812            | 52678            | 52634            | 52601            | 52596            | 52553            | 54253            | 54185            | 54133            | 54126            | 54074            | 57226            | 57211            | 57093            | 57072            | 56951            |
|                      |                              | S/T                                        | 0.8              | 0.92             | 1                | 1                | 1                | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                      |                              | PI                                         | 6.02             | 6.02             | 6.01             | 6                | 5.99             | 5.98             | 5.98             | 5.99             | 5.99             | 5.99             | 5.97             | 5.98             | 5.98             | 5.98             | 5.98             | 6.01             | 6.01             | 6.01             | 6.01             | 6.02             |
|                      | 0°F<br>-17.8°C               | TC                                         | 52165            | 52134            | 53101            | 53323            | 54787            | 54402            | 54342            | 54300            | 54293            | 54839            | 56001            | 55921            | 55852            | 55844            | 55817            | 59013            | 58999            | 58994            | 59002            | 59040            |
|                      |                              | S/T                                        | 0.81             | 0.93             | 1                | 1                | 1                | 0.66             | 0.77             | 0.86             | 0.88             | 1                | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                      |                              | PI                                         | 6.07             | 6.07             | 6.06             | 6.06             | 6.07             | 6.06             | 6.06             | 6.06             | 6.06             | 6.07             | 6.07             | 6.07             | 6.07             | 6.07             | 6.07             | 6.14             | 6.14             | 6.14             | 6.14             | 6.14             |
|                      | 5°F<br>-15.0°C               | TC                                         | 53660            | 53845            | 55076            | 55330            | 57035            | 56177            | 56191            | 56195            | 56252            | 57091            | 57973            | 57988            | 58000            | 58002            | 58079            | 61374            | 61355            | 61387            | 61394            | 61421            |
|                      |                              | S/T                                        | 0.82             | 0.94             | 1                | 1                | 1                | 0.66             | 0.78             | 0.87             | 0.88             | 1                | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                      |                              | PI                                         | 6.11             | 6.11             | 6.13             | 6.13             | 6.16             | 6.14             | 6.14             | 6.14             | 6.14             | 6.16             | 6.18             | 6.18             | 6.19             | 6.19             | 6.19             | 6.32             | 6.32             | 6.32             | 6.32             | 6.32             |
|                      | 14°F<br>-10.0°C              | TC                                         | 55031            | 55003            | 56126            | 56389            | 58138            | 57763            | 57712            | 57673            | 57666            | 58206            | 59742            | 59667            | 59606            | 59597            | 59537            | 63525            | 63505            | 63383            | 63361            | 63226            |
|                      |                              | S/T                                        | 0.81             | 0.93             | 1                | 1                | 1                | 0.65             | 0.76             | 0.86             | 0.87             | 1                | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                      |                              | PI                                         | 6.01             | 6.02             | 6.01             | 6                | 5.99             | 5.99             | 5.99             | 5.99             | 5.99             | 5.99             | 5.98             | 5.99             | 5.99             | 5.99             | 5.99             | 6.01             | 6.01             | 6.02             | 6.02             | 6.02             |
|                      | 17°F<br>-8.3°C               | TC                                         | 55357            | 55537            | 56820            | 57098            | 58952            | 58112            | 58136            | 58147            | 58195            | 59016            | 60095            | 60118            | 60142            | 60144            | 60219            | 63913            | 63895            | 63885            | 63897            | 63951            |
|                      |                              | S/T                                        | 0.82             | 0.93             | 1                | 1                | 1                | 0.66             | 0.77             | 0.87             | 0.88             | 1                | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                      |                              | PI                                         | 5.92             | 5.92             | 5.91             | 5.91             | 5.91             | 5.91             | 5.91             | 5.91             | 5.91             | 5.91             | 5.92             | 5.92             | 5.92             | 5.92             | 5.92             | 5.97             | 5.97             | 5.97             | 5.97             | 5.97             |
|                      | 23°F<br>-5.0°C               | TC                                         | 55103            | 55340            | 56772            | 57052            | 58932            | 57894            | 57911            | 57917            | 57993            | 58996            | 59890            | 59911            | 59926            | 59928            | 60025            | 63682            | 63662            | 63707            | 63716            | 63752            |
|                      |                              | S/T                                        | 0.83             | 0.95             | 1                | 1                | 1                | 0.66             | 0.78             | 0.88             | 0.89             | 1                | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                      |                              | PI                                         | 5.48             | 5.49             | 5.51             | 5.51             | 5.54             | 5.52             | 5.52             | 5.52             | 5.53             | 5.54             | 5.56             | 5.56             | 5.56             | 5.56             | 5.57             | 5.67             | 5.67             | 5.67             | 5.67             | 5.67             |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 17: COOLING PERFORMANCE 55K - DUCTED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>(°C) | ID WB<br>°F<br>(°C) | 60.8°F(16.0°C)      |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|--------------------------|---------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                          |                     | 73.4°F<br>23.0°C    | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                          |                     | ID DB<br>°F<br>(°C) |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1618             | 35°F<br>1.7°C            | TC                  | 55115               | 55116            | 55440            | 55595            | 57388            | 57691            | 57689            | 57694            | 57694            | 57847            | 59497            | 59493            | 59496            | 59497            | 59503            | 62847            | 62832            | 62829            | 62826            | 62832            |
|                  |                          | S/T                 | 0.78                | 0.88             | 0.97             | 0.99             | 1                | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                          | PI                  | 4.38                | 4.38             | 4.41             | 4.42             | 4.61             | 4.64             | 4.64             | 4.64             | 4.64             | 4.66             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             |
|                  | 41°F<br>5.0°C            | TC                  | 55334               | 55334            | 55775            | 56163            | 57823            | 57907            | 57906            | 57909            | 57909            | 58112            | 59714            | 59710            | 59713            | 59714            | 59718            | 63064            | 63049            | 63045            | 63042            | 63049            |
|                  |                          | S/T                 | 0.78                | 0.89             | 0.98             | 1                | 1                | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                          | PI                  | 4.65                | 4.65             | 4.69             | 4.74             | 4.93             | 4.94             | 4.94             | 4.94             | 4.94             | 4.97             | 5.17             | 5.17             | 5.17             | 5.17             | 5.17             | 5.63             | 5.63             | 5.63             | 5.63             | 5.63             |
|                  | 47°F<br>8.3°C            | TC                  | 55551               | 55588            | 56333            | 56585            | 58259            | 58126            | 58124            | 58126            | 58125            | 58394            | 59931            | 59926            | 59930            | 59930            | 59930            | 63287            | 63271            | 63266            | 63263            | 63269            |
|                  |                          | S/T                 | 0.79                | 0.9              | 1                | 1                | 1                | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                          | PI                  | 4.92                | 4.93             | 5.02             | 5.05             | 5.27             | 5.25             | 5.25             | 5.25             | 5.25             | 5.28             | 5.49             | 5.49             | 5.49             | 5.49             | 5.49             | 5.99             | 5.99             | 5.99             | 5.99             | 5.99             |
|                  | 50°F<br>10.0°C           | TC                  | 54343               | 55839            | 57724            | 58058            | 60309            | 57411            | 57443            | 57840            | 58022            | 60366            | 59651            | 59728            | 59760            | 59763            | 60338            | 63762            | 63931            | 64095            | 64114            | 64195            |
|                  |                          | S/T                 | 0.9                 | 1                | 1                | 1                | 1                | 0.71             | 0.85             | 0.96             | 0.99             | 1                | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.4              | 0.5              | 0.6              | 0.62             | 0.74             |
|                  |                          | PI                  | 5.51                | 5.51             | 5.51             | 5.51             | 5.5              | 5.51             | 5.51             | 5.51             | 5.51             | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.5              | 5.49             |
|                  | 59°F<br>15.0°C           | TC                  | 53706               | 55590            | 57563            | 57913            | 60270            | 56824            | 56901            | 57546            | 57975            | 60330            | 59168            | 59227            | 59248            | 59334            | 60379            | 63534            | 63661            | 63788            | 63802            | 63856            |
|                  |                          | S/T                 | 0.92                | 1                | 1                | 1                | 1                | 0.73             | 0.86             | 1                | 1                | 1                | 0.6              | 0.73             | 0.85             | 0.86             | 1                | 0.4              | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 5.49                | 5.51             | 5.52             | 5.52             | 5.54             | 5.52             | 5.52             | 5.52             | 5.53             | 5.54             | 5.54             | 5.54             | 5.53             | 5.54             | 5.54             | 5.57             | 5.57             | 5.57             | 5.57             | 5.57             |
|                  | 68°F<br>20.0°C           | TC                  | 53047               | 55311            | 57363            | 57727            | 60177            | 56159            | 56285            | 57425            | 57790            | 60237            | 58587            | 58631            | 58736            | 58787            | 60286            | 63127            | 63244            | 63344            | 63354            | 63387            |
|                  |                          | S/T                 | 0.95                | 1                | 1                | 1                | 1                | 0.74             | 0.89             | 1                | 1                | 1                | 0.61             | 0.75             | 0.87             | 0.89             | 1                | 0.4              | 0.51             | 0.63             | 0.65             | 0.78             |
|                  |                          | PI                  | 5.48                | 5.52             | 5.55             | 5.55             | 5.59             | 5.53             | 5.53             | 5.55             | 5.55             | 5.59             | 5.57             | 5.57             | 5.57             | 5.57             | 5.59             | 5.65             | 5.64             | 5.64             | 5.64             | 5.63             |
|                  | 77°F<br>25.0°C           | TC                  | 52349               | 54870            | 57018            | 57397            | 59962            | 55497            | 55673            | 57080            | 57461            | 60022            | 58011            | 58076            | 58224            | 58289            | 60073            | 62654            | 62844            | 62989            | 63005            | 63063            |
|                  |                          | S/T                 | 0.97                | 1                | 1                | 1                | 1                | 0.75             | 0.9              | 1                | 1                | 1                | 0.61             | 0.76             | 0.88             | 0.9              | 1                | 0.4              | 0.52             | 0.63             | 0.65             | 0.79             |
|                  |                          | PI                  | 5.53                | 5.56             | 5.58             | 5.59             | 5.62             | 5.57             | 5.57             | 5.59             | 5.59             | 5.62             | 5.6              | 5.6              | 5.6              | 5.6              | 5.62             | 5.67             | 5.66             | 5.66             | 5.66             | 5.65             |
|                  | 82°F<br>27.8°C           | TC                  | 52461               | 55139            | 57363            | 57752            | 60397            | 55593            | 55807            | 57413            | 57817            | 60460            | 58179            | 58252            | 58433            | 58505            | 60513            | 62903            | 63140            | 63304            | 63321            | 63390            |
|                  |                          | S/T                 | 0.99                | 1                | 1                | 1                | 1                | 0.76             | 0.91             | 1                | 1                | 1                | 0.62             | 0.77             | 0.89             | 0.92             | 1                | 0.4              | 0.52             | 0.64             | 0.66             | 0.8              |
|                  |                          | PI                  | 5.64                | 5.67             | 5.7              | 5.7              | 5.73             | 5.68             | 5.68             | 5.69             | 5.7              | 5.73             | 5.71             | 5.71             | 5.71             | 5.71             | 5.73             | 5.77             | 5.77             | 5.76             | 5.76             | 5.76             |
|                  | 86°F<br>30.0°C           | TC                  | 53360               | 56023            | 58315            | 58721            | 61456            | 56272            | 56531            | 58379            | 58788            | 61520            | 58939            | 59007            | 59223            | 59308            | 61573            | 63808            | 64054            | 64206            | 64222            | 64282            |
|                  |                          | S/T                 | 1                   | 1                | 1                | 1                | 1                | 0.77             | 0.93             | 1                | 1                | 1                | 0.62             | 0.78             | 0.91             | 0.93             | 1                | 0.4              | 0.52             | 0.64             | 0.66             | 0.81             |
|                  |                          | PI                  | 5.83                | 5.87             | 5.9              | 5.9              | 5.93             | 5.87             | 5.87             | 5.9              | 5.9              | 5.93             | 5.91             | 5.91             | 5.91             | 5.91             | 5.93             | 5.99             | 5.98             | 5.97             | 5.97             | 5.97             |
|                  | 95°F<br>35.0°C           | TC                  | 54989               | 55286            | 57073            | 57411            | 59680            | 58442            | 58476            | 58494            | 58563            | 59755            | 60950            | 60962            | 61000            | 61006            | 61107            | 65676            | 65651            | 65665            | 65683            | 65771            |
|                  |                          | S/T                 | 0.83                | 0.95             | 1                | 1                | 1                | 0.66             | 0.78             | 0.88             | 0.89             | 1                | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                          | PI                  | 6.03                | 6.05             | 6.14             | 6.16             | 6.28             | 6.22             | 6.22             | 6.22             | 6.22             | 6.29             | 6.36             | 6.36             | 6.36             | 6.36             | 6.37             | 6.62             | 6.62             | 6.62             | 6.62             | 6.62             |
|                  | 104°F<br>40.0°C          | TC                  | 46535               | 46961            | 48729            | 49022            | 50977            | 49466            | 49494            | 49582            | 49635            | 51040            | 51577            | 51598            | 51625            | 51628            | 51774            | 55592            | 55571            | 55597            | 55616            | 55675            |
|                  |                          | S/T                 | 0.85                | 0.98             | 1                | 1                | 1                | 0.68             | 0.8              | 0.9              | 0.92             | 1                | 0.56             | 0.68             | 0.78             | 0.8              | 0.91             | 0.39             | 0.48             | 0.58             | 0.59             | 0.7              |
|                  |                          | PI                  | 5.21                | 5.23             | 5.32             | 5.34             | 5.45             | 5.37             | 5.37             | 5.37             | 5.37             | 5.45             | 5.48             | 5.48             | 5.48             | 5.48             | 5.49             | 5.71             | 5.71             | 5.71             | 5.71             | 5.71             |
|                  | 110°F<br>43.0°C          | TC                  | 41303               | 42890            | 44526            | 44815            | 46756            | 43973            | 43987            | 44478            | 44867            | 46805            | 45953            | 45989            | 46000            | 46035            | 46845            | 49738            | 49741            | 49819            | 49826            | 49855            |
|                  |                          | S/T                 | 0.92                | 1                | 1                | 1                | 1                | 0.72             | 0.87             | 0.99             | 1                | 1                | 0.6              | 0.73             | 0.85             | 0.86             | 1                | 0.4              | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                          | PI                  | 4.77                | 4.83             | 4.9              | 4.91             | 4.99             | 4.88             | 4.87             | 4.89             | 4.91             | 4.99             | 4.96             | 4.96             | 4.96             | 4.96             | 4.99             | 5.12             | 5.12             | 5.12             | 5.12             | 5.11             |
|                  | 115°F<br>46.0°C          | TC                  | 36025               | 37761            | 39253            | 39545            | 41287            | 38311            | 38387            | 39298            | 39596            | 41329            | 40097            | 40121            | 40176            | 40215            | 41365            | 43477            | 43509            | 43569            | 43575            | 43589            |
|                  |                          | S/T                 | 0.96                | 1                | 1                | 1                | 1                | 0.75             | 0.89             | 1                | 1                | 1                | 0.61             | 0.75             | 0.87             | 0.9              | 1                | 0.4              | 0.52             | 0.63             | 0.65             | 0.78             |
|                  |                          | PI                  | 4.35                | 4.41             | 4.46             | 4.48             | 4.54             | 4.43             | 4.43             | 4.47             | 4.49             | 4.54             | 4.5              | 4.5              | 4.5              | 4.5              | 4.54             | 4.63             | 4.63             | 4.63             | 4.63             | 4.62             |
|                  | 122°F<br>50.0°C          | TC                  | 29346               | 30965            | 32351            | 32593            | 34239            | 30282            | 30997            | 32387            | 32629            | 34271            | 31890            | 31881            | 32411            | 32655            | 34292            | 34821            | 34956            | 34964            | 34961            | 35007            |
|                  |                          | S/T                 | 1                   | 1                | 1                | 1                | 1                | 0.84             | 1                | 1                | 1                | 1                | 0.67             | 0.85             | 1                | 1                | 1                | 0.41             | 0.55             | 0.69             | 0.72             | 0.88             |
|                  |                          | PI                  | 3.82                | 3.86             | 3.89             | 3.89             | 3.93             | 3.84             | 3.86             | 3.89             | 3.89             | 3.93             | 3.88             | 3.88             | 3.89             | 3.89             | 3.92             | 3.97             | 3.95             | 3.95             | 3.95             | 3.94             |

## COOLING PERFORMANCE - MIXED

Table 18: COOLING PERFORMANCE 18K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 529              | -13°F<br>-25.0°C        | TC                                 | 13325            | 13333            | 13473            | 13514            | 13784            | 14097            | 14094            | 14094            | 14094            | 14131            | 14649            | 14646            | 14645            | 14645            | 14645            | 15701            | 15696            | 15694            | 15694            | 15691            |
|                  |                         | S/T                                | 0.76             | 0.86             | 0.94             | 0.94             | 0.98             | 0.62             | 0.71             | 0.79             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.47             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                 | 1.16             | 1.16             | 1.17             | 1.17             | 1.18             | 1.17             | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             | 1.20             | 1.20             | 1.20             | 1.20             | 1.20             |
|                  | -4°F<br>-20.0°C         | TC                                 | 12671            | 12689            | 12861            | 12895            | 13125            | 13392            | 13391            | 13390            | 13390            | 13486            | 13909            | 13906            | 13906            | 13906            | 13904            | 14891            | 14886            | 14883            | 14883            | 14882            |
|                  |                         | S/T                                | 0.78             | 0.88             | 0.94             | 0.94             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.92             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.47             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                 | 1.11             | 1.11             | 1.12             | 1.12             | 1.13             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             |
|                  | 0°F<br>-17.8°C          | TC                                 | 11311            | 11459            | 11615            | 11642            | 11827            | 11944            | 11943            | 11973            | 12009            | 12194            | 12401            | 12400            | 12398            | 12398            | 12454            | 13267            | 13263            | 13264            | 13264            | 13261            |
|                  |                         | S/T                                | 0.83             | 0.91             | 0.94             | 0.95             | 0.99             | 0.66             | 0.77             | 0.87             | 0.88             | 0.92             | 0.55             | 0.66             | 0.75             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.67             |
|                  |                         | PI                                 | 1.03             | 1.03             | 1.04             | 1.04             | 1.04             | 1.03             | 1.03             | 1.03             | 1.03             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.04             |
|                  | 5°F<br>-15.0°C          | TC                                 | 17200            | 17198            | 17197            | 17196            | 17504            | 18015            | 18011            | 18008            | 18007            | 18005            | 18596            | 18592            | 18588            | 18587            | 18583            | 19698            | 19693            | 19687            | 19686            | 19680            |
|                  |                         | S/T                                | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.46             | 0.52             | 0.53             | 0.62             |
|                  |                         | PI                                 | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                  | 14°F<br>-10.0°C         | TC                                 | 17868            | 17865            | 17862            | 17862            | 18102            | 18733            | 18728            | 18724            | 18723            | 18719            | 19349            | 19343            | 19337            | 19336            | 19330            | 20510            | 20505            | 20498            | 20497            | 20487            |
|                  |                         | S/T                                | 0.74             | 0.83             | 0.90             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.77             | 0.39             | 0.46             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                 | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                  | 17°F<br>-8.3°C          | TC                                 | 18184            | 18180            | 18176            | 18176            | 18544            | 19059            | 19053            | 19047            | 19046            | 19042            | 19681            | 19677            | 19671            | 19670            | 19664            | 20868            | 20863            | 20860            | 20859            | 20860            |
|                  |                         | S/T                                | 0.74             | 0.83             | 0.91             | 0.93             | 1.00             | 0.61             | 0.70             | 0.77             | 0.79             | 0.88             | 0.52             | 0.61             | 0.68             | 0.70             | 0.78             | 0.39             | 0.46             | 0.52             | 0.54             | 0.62             |
|                  |                         | PI                                 | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                  | 23°F<br>-5.0°C          | TC                                 | 18467            | 18468            | 18500            | 18520            | 18974            | 19407            | 19405            | 19406            | 19407            | 19421            | 20083            | 20081            | 20081            | 20081            | 20084            | 21376            | 21370            | 21368            | 21367            | 21368            |
|                  |                         | S/T                                | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.80             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.47             | 0.53             | 0.54             | 0.62             |
|                  |                         | PI                                 | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             |
|                  | 35°F<br>1.7°C           | TC                                 | 18885            | 18882            | 18879            | 18878            | 19196            | 19855            | 19851            | 19847            | 19846            | 19841            | 20546            | 20540            | 20535            | 20534            | 20527            | 21849            | 21844            | 21837            | 21836            | 21827            |
|                  |                         | S/T                                | 0.73             | 0.82             | 0.89             | 0.90             | 0.97             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.46             | 0.52             | 0.53             | 0.60             |
|                  |                         | PI                                 | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                  | 41°F<br>5.0°C           | TC                                 | 18961            | 18956            | 18984            | 19000            | 19347            | 19931            | 19927            | 19928            | 19928            | 19940            | 20625            | 20624            | 20625            | 20626            | 20628            | 21952            | 21946            | 21946            | 21945            | 21947            |
|                  |                         | S/T                                | 0.73             | 0.82             | 0.90             | 0.91             | 0.97             | 0.61             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.46             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                 | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                  | 47°F<br>8.3°C           | TC                                 | 18824            | 18824            | 18868            | 18887            | 19274            | 19801            | 19799            | 19800            | 19800            | 19818            | 20498            | 20495            | 20496            | 20496            | 20498            | 21820            | 21814            | 21813            | 21812            | 21813            |
|                  |                         | S/T                                | 0.74             | 0.83             | 0.91             | 0.92             | 0.98             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.46             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                 | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
|                  | 50°F<br>10.0°C          | TC                                 | 18472            | 18472            | 18543            | 18606            | 19034            | 19473            | 19473            | 19474            | 19474            | 19505            | 20186            | 20186            | 20188            | 20189            | 20191            | 21543            | 21536            | 21535            | 21534            | 21542            |
|                  |                         | S/T                                | 0.76             | 0.85             | 0.94             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.47             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                 | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                  | 59°F<br>15.0°C          | TC                                 | 17579            | 17615            | 17756            | 17801            | 18260            | 18576            | 18575            | 18576            | 18576            | 18623            | 19271            | 19268            | 19269            | 19269            | 19271            | 20585            | 20579            | 20577            | 20576            | 20582            |
|                  |                         | S/T                                | 0.77             | 0.87             | 0.95             | 0.95             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                         | PI                                 | 1.22             | 1.22             | 1.22             | 1.23             | 1.24             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
|                  | 68°F<br>20.0°C          | TC                                 | 16745            | 16767            | 16953            | 17005            | 17485            | 17682            | 17681            | 17681            | 17681            | 17766            | 18352            | 18350            | 18351            | 18351            | 18352            | 19621            | 19614            | 19612            | 19612            | 19617            |
|                  |                         | S/T                                | 0.78             | 0.88             | 0.95             | 0.96             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                 | 1.19             | 1.19             | 1.20             | 1.20             | 1.22             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                  | 77°F<br>25.0°C          | TC                                 | 15850            | 15922            | 16408            | 16507            | 17164            | 16855            | 16864            | 16868            | 16885            | 17187            | 17587            | 17592            | 17602            | 17603            | 17627            | 18987            | 18979            | 18994            | 18997            | 19021            |
|                  |                         | S/T                                | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                 | 1.27             | 1.27             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             |
|                  | 82°F<br>27.8°C          | TC                                 | 15178            | 15282            | 15840            | 15939            | 16600            | 16182            | 16190            | 16210            | 16225            | 16623            | 16912            | 16918            | 16927            | 16928            | 16964            | 18317            | 18309            | 18321            | 18324            | 18346            |
|                  |                         | S/T                                | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                 | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |
|                  | 86°F<br>30.0°C          | TC                                 | 14780            | 14978            | 15556            | 15656            | 16329            | 15794            | 15800            | 15835            | 15853            | 16351            | 16530            | 16536            | 16542            | 16543            | 16596            | 17947            | 17939            | 17951            | 17954            | 17972            |
|                  |                         | S/T                                | 0.86             | 0.99             | 1.00             | 1.00             | 1.00             | 0.68             | 0.80             | 0.90             | 0.92             | 1.00             | 0.57             | 0.68             | 0.78             | 0.80             | 0.92             | 0.39             | 0.48             | 0.58             | 0.59             | 0.70             |
|                  |                         | PI                                 | 1.30             | 1.30             | 1.31             | 1.31             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |
|                  | 95°F<br>35.0°C          | TC                                 | 14677            | 14865            | 15182            | 15246            | 15793            | 15677            | 15679            | 15712            | 15726            | 16068            | 16396            | 16403            | 16406            | 16407            | 16454            | 17787            | 17780            | 17793            | 17795            | 17806            |
|                  |                         | S/T                                | 0.81             | 0.92             | 0.96             | 0.96             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.93             | 0.55             |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 18: COOLING PERFORMANCE 18K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 688              | -13°F<br>-25.0°C        | TC                                   | 15278            | 15329            | 15597            | 15643            | 16126            | 16133            | 16133            | 16137            | 16144            | 16337            | 16747            | 16744            | 16744            | 16743            | 16753            | 17909            | 17904            | 17900            | 17901            | 17901            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 0.96             | 0.97             | 1.00             | 0.64             | 0.75             | 0.83             | 0.85             | 0.94             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 1.28             | 1.29             | 1.29             | 1.30             | 1.30             | 1.29             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |
|                  | -4°F<br>-20.0°C         | TC                                   | 14590            | 14708            | 14929            | 14969            | 15417            | 15394            | 15393            | 15407            | 15415            | 15641            | 15969            | 15967            | 15966            | 15966            | 15985            | 17059            | 17054            | 17052            | 17053            | 17051            |
|                  |                         | S/T                                  | 0.81             | 0.92             | 0.96             | 0.97             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.94             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 1.23             | 1.24             | 1.24             | 1.25             | 1.25             | 1.24             | 1.24             | 1.24             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             |
|                  | 0°F<br>-17.8°C          | TC                                   | 13130            | 13344            | 13521            | 13553            | 13998            | 13804            | 13811            | 13938            | 13969            | 14179            | 14316            | 14313            | 14315            | 14319            | 14472            | 15278            | 15277            | 15280            | 15280            | 15280            |
|                  |                         | S/T                                  | 0.88             | 0.92             | 0.97             | 0.97             | 1.00             | 0.69             | 0.81             | 0.89             | 0.90             | 0.95             | 0.57             | 0.69             | 0.79             | 0.81             | 0.90             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                         | PI                                   | 1.15             | 1.15             | 1.15             | 1.16             | 1.16             | 1.15             | 1.15             | 1.15             | 1.15             | 1.16             | 1.15             | 1.15             | 1.15             | 1.15             | 1.16             | 1.17             | 1.17             | 1.17             | 1.17             | 1.16             |
|                  | 5°F<br>-15.0°C          | TC                                   | 19645            | 19643            | 19670            | 19742            | 20321            | 20555            | 20549            | 20545            | 20549            | 21203            | 21197            | 21190            | 21189            | 21184            | 22435            | 22429            | 22420            | 22417            | 22401            |                  |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.98             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.92             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 1.50             | 1.50             | 1.50             | 1.50             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             |
|                  | 14°F<br>-10.0°C         | TC                                   | 20390            | 20384            | 20379            | 20442            | 21033            | 21355            | 21345            | 21338            | 21336            | 21325            | 22041            | 22032            | 22020            | 22018            | 22005            | 23343            | 23337            | 23323            | 23320            | 23294            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                  | 17°F<br>-8.3°C          | TC                                   | 20737            | 20729            | 20797            | 20896            | 21497            | 21712            | 21700            | 21695            | 21694            | 21703            | 22406            | 22399            | 22389            | 22388            | 22381            | 23735            | 23728            | 23729            | 23730            | 23742            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.97             | 0.98             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.92             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             |
|                  | 23°F<br>-5.0°C          | TC                                   | 21039            | 21050            | 21245            | 21315            | 21989            | 22086            | 22088            | 22091            | 22092            | 22167            | 22840            | 22838            | 22843            | 22844            | 22847            | 24272            | 24265            | 24265            | 24266            | 24275            |
|                  |                         | S/T                                  | 0.78             | 0.88             | 0.98             | 0.98             | 1.00             | 0.63             | 0.74             | 0.82             | 0.84             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                  | 35°F<br>1.7°C           | TC                                   | 21520            | 21515            | 21565            | 21670            | 22169            | 22596            | 22587            | 22580            | 22579            | 22573            | 23364            | 23357            | 23345            | 23343            | 23332            | 24804            | 24797            | 24785            | 24782            | 24760            |
|                  |                         | S/T                                  | 0.76             | 0.85             | 0.94             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.47             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 1.45             | 1.45             | 1.45             | 1.45             | 1.46             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             |
|                  | 41°F<br>5.0°C           | TC                                   | 21592            | 21618            | 21767            | 21841            | 22395            | 22693            | 22692            | 22694            | 22695            | 22755            | 23428            | 23433            | 23439            | 23440            | 23443            | 24917            | 24910            | 24909            | 24911            | 24924            |
|                  |                         | S/T                                  | 0.77             | 0.86             | 0.95             | 0.95             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.91             | 0.53             | 0.63             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.63             |
|                  |                         | PI                                   | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.54             | 1.54             | 1.53             | 1.53             | 1.54             |
|                  | 47°F<br>8.3°C           | TC                                   | 21440            | 21457            | 21653            | 21722            | 22310            | 22520            | 22521            | 22522            | 22522            | 22598            | 23291            | 23290            | 23292            | 23292            | 23294            | 24741            | 24734            | 24733            | 24734            | 24743            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.96             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.92             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 1.38             | 1.38             | 1.38             | 1.38             | 1.40             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                  | 50°F<br>10.0°C          | TC                                   | 21025            | 21064            | 21343            | 21409            | 22073            | 22137            | 22141            | 22144            | 22154            | 22314            | 22929            | 22934            | 22938            | 22939            | 22955            | 24422            | 24415            | 24424            | 24429            | 24441            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 0.96             | 0.97             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 1.40             | 1.40             | 1.40             | 1.40             | 1.42             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |
|                  | 59°F<br>15.0°C          | TC                                   | 20026            | 20086            | 20417            | 20485            | 21166            | 21106            | 21109            | 21123            | 21131            | 21363            | 21876            | 21879            | 21883            | 21883            | 21907            | 23330            | 23322            | 23330            | 23333            | 23342            |
|                  |                         | S/T                                  | 0.80             | 0.92             | 0.97             | 0.98             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.95             | 0.55             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 1.36             | 1.36             | 1.37             | 1.37             | 1.40             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                  | 68°F<br>20.0°C          | TC                                   | 19035            | 19165            | 19496            | 19566            | 20257            | 20079            | 20081            | 20104            | 20114            | 20409            | 20822            | 20825            | 20827            | 20828            | 20862            | 22228            | 22221            | 22229            | 22230            | 22236            |
|                  |                         | S/T                                  | 0.82             | 0.93             | 0.98             | 0.98             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 0.96             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                   | 1.33             | 1.33             | 1.34             | 1.34             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.50             | 1.49             | 1.49             | 1.49             | 1.49             |
|                  | 77°F<br>25.0°C          | TC                                   | 17989            | 18333            | 18981            | 19096            | 19869            | 19120            | 19131            | 19197            | 19225            | 19893            | 19927            | 19949            | 19960            | 19961            | 20057            | 21472            | 21474            | 21519            | 21525            | 21552            |
|                  |                         | S/T                                  | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.92             | 0.94             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.71             |
|                  |                         | PI                                   | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                  | 82°F<br>27.8°C          | TC                                   | 17252            | 17689            | 18342            | 18458            | 19235            | 18369            | 18378            | 18468            | 18504            | 19259            | 19177            | 19197            | 19206            | 19207            | 19332            | 20732            | 20736            | 20771            | 20776            | 20799            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|                  |                         | PI                                   | 1.42             | 1.43             | 1.43             | 1.43             | 1.44             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             |
|                  | 86°F<br>30.0°C          | TC                                   | 16840            | 17378            | 18042            | 18160            | 18951            | 17952            | 17959            | 18085            | 18173            | 18974            | 18770            | 18787            | 18794            | 18795            | 18979            | 20343            | 20348            | 20379            | 20384            | 20402            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.97             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.98             | 0.39             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                         | PI                                   | 1.45             | 1.45             | 1.46             | 1.46             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.49             | 1.49             | 1.48             | 1.48             | 1.48             |
|                  | 95°F<br>35.0°C          | TC                                   | 16764            | 17109            | 17514            | 17598            | 18352            | 17856            | 17860            | 17972            | 18055            | 18501            | 18659            | 18670            | 18674            | 18686            | 18864            | 20195            | 20202            | 20223            | 20230            | 20239            |
|                  |                         | S/T                                  | 0.85             | 0.94             | 0.98             | 0.99             | 1.00             | 0.67             | 0.79             | 0.90             | 0                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 18: COOLING PERFORMANCE 18K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1006             | -13°F<br>-25.0°C        | TC                                   | 16769            | 16973            | 17270            | 17376            | 17999            | 17693            | 17691            | 17722            | 17738            | 18076            | 18351            | 18351            | 18348            | 18347            | 18390            | 19608            | 19601            | 19603            | 19602            | 19593            |
|                  |                         | S/T                                  | 0.83             | 0.94             | 0.98             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 0.96             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.69             |
|                  |                         | PI                                   | 1.41             | 1.42             | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             |
|                  | -4°F<br>-20.0°C         | TC                                   | 16059            | 16290            | 16540            | 16642            | 17235            | 16916            | 16912            | 16965            | 17022            | 17316            | 17539            | 17540            | 17535            | 17534            | 17626            | 18713            | 18707            | 18710            | 18708            | 18696            |
|                  |                         | S/T                                  | 0.85             | 0.94             | 0.98             | 1.00             | 1.00             | 0.68             | 0.79             | 0.90             | 0.91             | 0.96             | 0.56             | 0.68             | 0.78             | 0.79             | 0.91             | 0.39             | 0.48             | 0.58             | 0.59             | 0.70             |
|                  |                         | PI                                   | 1.35             | 1.36             | 1.37             | 1.37             | 1.38             | 1.36             | 1.36             | 1.36             | 1.37             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                  | 0°F<br>-17.8°C          | TC                                   | 14931            | 15164            | 15365            | 15462            | 16017            | 15598            | 15627            | 15832            | 15868            | 16101            | 16169            | 16163            | 16180            | 16193            | 16433            | 17245            | 17252            | 17246            | 17243            | 17222            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.98             | 1.00             | 1.00             | 0.72             | 0.86             | 0.91             | 0.92             | 0.97             | 0.59             | 0.72             | 0.84             | 0.86             | 0.91             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                         | PI                                   | 1.28             | 1.29             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.29             | 1.29             | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |
|                  | 5°F<br>-15.0°C          | TC                                   | 22126            | 22116            | 22318            | 22449            | 23069            | 23088            | 23070            | 23056            | 23054            | 23042            | 23772            | 23750            | 23728            | 23725            | 23703            | 25064            | 25057            | 25032            | 25028            | 25011            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 0.99             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |
|                  | 14°F<br>-10.0°C         | TC                                   | 23308            | 23313            | 23636            | 23739            | 24428            | 24366            | 24358            | 24351            | 24350            | 24398            | 25128            | 25111            | 25102            | 25100            | 25089            | 26565            | 26558            | 26530            | 26526            | 26504            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 1.71             | 1.71             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             |
|                  | 17°F<br>-8.3°C          | TC                                   | 23672            | 23661            | 23938            | 24089            | 24792            | 24770            | 24749            | 24733            | 24731            | 24854            | 25559            | 25534            | 25508            | 25505            | 25488            | 27044            | 27037            | 27027            | 27026            | 27015            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 1.75             | 1.75             | 1.75             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                  | 23°F<br>-5.0°C          | TC                                   | 24031            | 24078            | 24509            | 24636            | 25410            | 25196            | 25200            | 25203            | 25217            | 25473            | 26000            | 26008            | 26019            | 26020            | 26042            | 27621            | 27612            | 27621            | 27626            | 27644            |
|                  |                         | S/T                                  | 0.81             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.47             | 0.56             | 0.58             | 0.67             |
|                  |                         | PI                                   | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             |
|                  | 35°F<br>1.7°C           | TC                                   | 24486            | 24495            | 24949            | 25068            | 25865            | 25721            | 25711            | 25703            | 25702            | 25902            | 26614            | 26595            | 26584            | 26582            | 26570            | 28313            | 28304            | 28275            | 28272            | 28248            |
|                  |                         | S/T                                  | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             |
|                  | 41°F<br>5.0°C           | TC                                   | 24678            | 24722            | 25055            | 25135            | 25875            | 25886            | 25890            | 25893            | 25905            | 26104            | 26746            | 26750            | 26755            | 26756            | 26775            | 28377            | 28369            | 28364            | 28369            | 28380            |
|                  |                         | S/T                                  | 0.79             | 0.89             | 0.96             | 0.97             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 1.60             | 1.60             | 1.60             | 1.60             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
|                  | 47°F<br>8.3°C           | TC                                   | 24513            | 24571            | 24948            | 25031            | 25805            | 25722            | 25725            | 25727            | 25745            | 25998            | 26580            | 26584            | 26586            | 26587            | 26612            | 28193            | 28186            | 28194            | 28197            | 28204            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 0.97             | 0.98             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.95             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 1.57             | 1.57             | 1.58             | 1.58             | 1.61             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                  | 50°F<br>10.0°C          | TC                                   | 24390            | 24390            | 24511            | 24568            | 25344            | 25539            | 25537            | 25538            | 25539            | 25593            | 26345            | 26343            | 26342            | 26343            | 26345            | 27841            | 27834            | 27833            | 27832            | 27831            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.96             | 0.98             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.92             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.65             |
|                  |                         | PI                                   | 1.49             | 1.49             | 1.50             | 1.50             | 1.56             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                  | 59°F<br>15.0°C          | TC                                   | 23529            | 23703            | 24167            | 24321            | 25138            | 24754            | 24760            | 24797            | 24812            | 25219            | 25618            | 25632            | 25640            | 25641            | 25695            | 27242            | 27244            | 27274            | 27277            | 27295            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 0.99             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.89             | 0.97             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.69             |
|                  |                         | PI                                   | 1.52             | 1.52             | 1.53             | 1.54             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             |
|                  | 68°F<br>20.0°C          | TC                                   | 22385            | 22632            | 23156            | 23276            | 24077            | 23568            | 23572            | 23625            | 23645            | 24120            | 24410            | 24421            | 24426            | 24426            | 24499            | 26000            | 25999            | 26021            | 26023            | 26036            |
|                  |                         | S/T                                  | 0.84             | 0.95             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 0.98             | 0.56             | 0.68             | 0.77             | 0.79             | 0.91             | 0.39             | 0.48             | 0.57             | 0.59             | 0.70             |
|                  |                         | PI                                   | 1.49             | 1.49             | 1.51             | 1.51             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.55             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
|                  | 77°F<br>25.0°C          | TC                                   | 21212            | 21839            | 22605            | 22741            | 23655            | 22465            | 22475            | 22639            | 22744            | 23680            | 23385            | 23411            | 23421            | 23422            | 23665            | 25108            | 25149            | 25203            | 25209            | 25235            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.97             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                         | PI                                   | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                  | 82°F<br>27.8°C          | TC                                   | 19793            | 20515            | 21272            | 21406            | 22309            | 21001            | 21021            | 21261            | 21430            | 22333            | 21907            | 21930            | 21939            | 21968            | 22352            | 23611            | 23647            | 23696            | 23702            | 23724            |
|                  |                         | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                         | PI                                   | 1.58             | 1.59             | 1.59             | 1.59             | 1.60             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                  | 86°F<br>30.0°C          | TC                                   | 18973            | 19781            | 20538            | 20673            | 21578            | 20147            | 20187            | 20562            | 20696            | 21600            | 21050            | 21071            | 21097            | 21122            | 21619            | 22748            | 22784            | 22829            | 22834            | 22853            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                  |                         | PI                                   | 1.59             | 1.60             | 1.61             | 1.61             | 1.62             | 1.60             | 1.60             | 1.61             | 1.61             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
|                  | 95°F<br>35.0°C          | TC                                   | 18513            | 19389            | 20160            | 20297            | 21222            | 19677            | 19729            | 20183            | 20320            | 21241            | 20590            | 20613            | 20657            | 20678            | 21260            | 22294            | 22345            | 22397            | 22403            | 22425            |
|                  |                         | S/T                                  | 0.96             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.89             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 18: COOLING PERFORMANCE 18K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1147             | -13°F<br>-25.0°C        | TC                                   | 12414            | 12954            | 13474            | 13566            | 14184            | 13145            | 13180            | 13469            | 13582            | 14198            | 13770            | 13777            | 13802            | 13822            | 14211            | 14956            | 14965            | 14984            | 14985            | 14989            |
|                  |                         | S/T                                  | 0.96             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.92             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.90             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                  |                         | PI                                   | 1.33             | 1.35             | 1.37             | 1.37             | 1.39             | 1.36             | 1.36             | 1.37             | 1.37             | 1.39             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                  | -4°F<br>-20.0°C         | TC                                   | 17621            | 17949            | 18388            | 18489            | 19123            | 18524            | 18529            | 18697            | 18753            | 19076            | 19200            | 19191            | 19190            | 19196            | 19406            | 20480            | 20483            | 20469            | 20466            | 20443            |
|                  |                         | S/T                                  | 0.88             | 0.95             | 1.00             | 1.00             | 1.00             | 0.70             | 0.82             | 0.92             | 0.93             | 0.98             | 0.58             | 0.70             | 0.80             | 0.82             | 0.93             | 0.39             | 0.49             | 0.59             | 0.61             | 0.73             |
|                  |                         | PI                                   | 1.51             | 1.52             | 1.52             | 1.53             | 1.53             | 1.51             | 1.51             | 1.52             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |
|                  | 0°F<br>-17.8°C          | TC                                   | 16407            | 16667            | 17060            | 17148            | 17743            | 17064            | 17171            | 17391            | 17429            | 17688            | 17689            | 17672            | 17747            | 17785            | 18041            | 18852            | 18871            | 18845            | 18840            | 18820            |
|                  |                         | S/T                                  | 0.90             | 0.96             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 0.92             | 0.93             | 0.99             | 0.61             | 0.75             | 0.87             | 0.88             | 0.93             | 0.40             | 0.51             | 0.62             | 0.64             | 0.78             |
|                  |                         | PI                                   | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.42             | 1.43             | 1.43             | 1.43             | 1.44             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.45             | 1.45             | 1.44             | 1.44             | 1.44             |
|                  | 5°F<br>-15.0°C          | TC                                   | 25283            | 25322            | 25793            | 25906            | 26663            | 26425            | 26418            | 26410            | 26423            | 26612            | 27243            | 27230            | 27220            | 27218            | 27224            | 28789            | 28781            | 28759            | 28756            | 28732            |
|                  |                         | S/T                                  | 12793            | 12837            | 13130            | 13191            | 13598            | 13393            | 13396            | 13397            | 13411            | 13611            | 13821            | 13825            | 13828            | 13828            | 13846            | 14632            | 14627            | 14635            | 14636            | 14643            |
|                  |                         | PI                                   | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.86             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             |
|                  | 14°F<br>-10.0°C         | TC                                   | 12905            | 12898            | 13137            | 13192            | 13554            | 13459            | 13444            | 13434            | 13432            | 13567            | 13855            | 13835            | 13818            | 13816            | 13809            | 14600            | 14596            | 14595            | 14597            | 14606            |
|                  |                         | S/T                                  | 0.41             | 0.46             | 0.50             | 0.50             | 0.50             | 0.33             | 0.38             | 0.43             | 0.44             | 0.50             | 0.28             | 0.33             | 0.38             | 0.38             | 0.44             | 0.19             | 0.24             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             |
|                  | 17°F<br>-8.3°C          | TC                                   | 13275            | 13321            | 13626            | 13689            | 14110            | 13898            | 13902            | 13903            | 13917            | 14124            | 14343            | 14346            | 14349            | 14350            | 14369            | 15184            | 15179            | 15187            | 15189            | 15195            |
|                  |                         | S/T                                  | 0.41             | 0.47             | 0.50             | 0.50             | 0.50             | 0.33             | 0.39             | 0.44             | 0.44             | 0.50             | 0.28             | 0.33             | 0.38             | 0.39             | 0.44             | 0.19             | 0.24             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 0.88             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.91             | 0.91             | 0.91             | 0.91             | 0.92             |
|                  | 23°F<br>-5.0°C          | TC                                   | 13244            | 13237            | 13508            | 13571            | 13992            | 13902            | 13889            | 13880            | 13878            | 14008            | 14378            | 14360            | 14345            | 14343            | 14329            | 15288            | 15284            | 15254            | 15249            | 15216            |
|                  |                         | S/T                                  | 0.40             | 0.46             | 0.50             | 0.50             | 0.50             | 0.33             | 0.38             | 0.43             | 0.44             | 0.50             | 0.28             | 0.33             | 0.37             | 0.38             | 0.44             | 0.19             | 0.24             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 0.92             | 0.93             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.93             | 0.93             | 0.93             |
|                  | 35°F<br>1.7°C           | TC                                   | 13203            | 13246            | 13552            | 13618            | 14060            | 13860            | 13866            | 13868            | 13880            | 14075            | 14333            | 14338            | 14344            | 14345            | 14362            | 15243            | 15239            | 15237            | 15240            | 15253            |
|                  |                         | S/T                                  | 0.41             | 0.47             | 0.50             | 0.50             | 0.50             | 0.33             | 0.39             | 0.43             | 0.44             | 0.50             | 0.28             | 0.33             | 0.38             | 0.39             | 0.44             | 0.19             | 0.24             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.94             | 0.94             | 0.94             | 0.94             | 0.94             |
|                  | 41°F<br>5.0°C           | TC                                   | 13178            | 13235            | 13577            | 13644            | 14094            | 13845            | 13850            | 13851            | 13869            | 14109            | 14323            | 14328            | 14332            | 14332            | 14355            | 15230            | 15225            | 15236            | 15238            | 15247            |
|                  |                         | S/T                                  | 0.41             | 0.47             | 0.50             | 0.50             | 0.50             | 0.33             | 0.39             | 0.44             | 0.44             | 0.50             | 0.28             | 0.33             | 0.38             | 0.39             | 0.44             | 0.19             | 0.24             | 0.29             | 0.29             | 0.34             |
|                  |                         | PI                                   | 0.91             | 0.91             | 0.91             | 0.91             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             | 0.94             | 0.94             | 0.94             | 0.94             | 0.94             |
|                  | 47°F<br>8.3°C           | TC                                   | 13253            | 13253            | 13331            | 13369            | 13800            | 13872            | 13872            | 13873            | 13873            | 13910            | 14307            | 14306            | 14307            | 14307            | 14308            | 15112            | 15109            | 15108            | 15107            | 15109            |
|                  |                         | S/T                                  | 0.39             | 0.44             | 0.48             | 0.49             | 0.50             | 0.32             | 0.37             | 0.41             | 0.42             | 0.46             | 0.27             | 0.32             | 0.36             | 0.37             | 0.41             | 0.19             | 0.23             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 0.82             | 0.82             | 0.83             | 0.83             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.88             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             |
|                  | 50°F<br>10.0°C          | TC                                   | 13156            | 13156            | 13261            | 13353            | 13748            | 13768            | 13768            | 13768            | 13768            | 13817            | 14197            | 14197            | 14197            | 14198            | 14198            | 14994            | 14990            | 14989            | 14989            | 14990            |
|                  |                         | S/T                                  | 0.39             | 0.45             | 0.49             | 0.50             | 0.50             | 0.32             | 0.37             | 0.41             | 0.42             | 0.47             | 0.27             | 0.32             | 0.36             | 0.37             | 0.42             | 0.19             | 0.23             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 0.79             | 0.79             | 0.80             | 0.81             | 0.84             | 0.84             | 0.84             | 0.84             | 0.84             | 0.85             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             |
|                  | 59°F<br>15.0°C          | TC                                   | 13059            | 13067            | 13242            | 13302            | 13695            | 13664            | 13664            | 13664            | 13664            | 13727            | 14088            | 14087            | 14088            | 14088            | 14088            | 14877            | 14873            | 14872            | 14872            | 14873            |
|                  |                         | S/T                                  | 0.40             | 0.45             | 0.50             | 0.50             | 0.50             | 0.32             | 0.37             | 0.42             | 0.43             | 0.48             | 0.27             | 0.32             | 0.37             | 0.37             | 0.42             | 0.19             | 0.24             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 0.76             | 0.76             | 0.78             | 0.78             | 0.81             | 0.81             | 0.81             | 0.81             | 0.81             | 0.82             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.93             | 0.92             | 0.92             | 0.92             | 0.92             |
|                  | 68°F<br>20.0°C          | TC                                   | 12538            | 12883            | 13318            | 13395            | 13914            | 13246            | 13253            | 13344            | 13386            | 13927            | 13762            | 13780            | 13787            | 13788            | 13921            | 14711            | 14750            | 14788            | 14792            | 14811            |
|                  |                         | S/T                                  | 0.45             | 0.50             | 0.50             | 0.50             | 0.50             | 0.36             | 0.42             | 0.48             | 0.49             | 0.50             | 0.29             | 0.36             | 0.41             | 0.42             | 0.49             | 0.20             | 0.25             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                  | 77°F<br>25.0°C          | TC                                   | 11680            | 12090            | 12519            | 12595            | 13107            | 12358            | 12375            | 12515            | 12608            | 13120            | 12868            | 12881            | 12885            | 12904            | 13131            | 13817            | 13845            | 13873            | 13876            | 13887            |
|                  |                         | S/T                                  | 0.46             | 0.50             | 0.50             | 0.50             | 0.50             | 0.36             | 0.43             | 0.50             | 0.50             | 0.50             | 0.30             | 0.37             | 0.43             | 0.43             | 0.50             | 0.20             | 0.25             | 0.31             | 0.32             | 0.38             |
|                  |                         | PI                                   | 0.86             | 0.86             | 0.86             | 0.86             | 0.87             | 0.86             | 0.86             | 0.86             | 0.86             | 0.87             | 0.87             | 0.86             | 0.86             | 0.86             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             |
|                  | 82°F<br>27.8°C          | TC                                   | 10822            | 11284            | 11703            | 11777            | 12277            | 11457            | 11483            | 11715            | 11790            | 12289            | 11952            | 11961            | 11983            | 11993            | 12299            | 12879            | 12903            | 12923            | 12925            | 12932            |
|                  |                         | S/T                                  | 0.48             | 0.50             | 0.50             | 0.50             | 0.50             | 0.37             | 0.44             | 0.50             | 0.50             | 0.50             | 0.30             | 0.38             | 0.43             | 0.45             | 0.50             | 0.20             | 0.26             | 0.31             | 0.32             | 0.39             |
|                  |                         | PI                                   | 0.86             | 0.87             | 0.87             | 0.87             | 0.88             | 0.87             | 0.87             | 0.87             | 0.87             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             |
|                  | 86°F<br>30.0°C          | TC                                   | 9963             | 10442            | 10851            | 10923            | 11411            | 10562            | 10595            | 10863            | 10935            | 11423            | 11040            | 11052            | 11081            | 11093            | 11432            | 11924            | 11960            | 11988            | 11991            | 12002            |
|                  |                         | S/T                                  | 0.49             | 0.50             | 0.50             | 0.50             | 0.50             | 0.38             | 0.45             | 0.50             | 0.50             | 0.50             | 0.31             | 0.38             | 0.44             | 0.45             | 0.50             | 0.20             | 0.26             | 0.32             | 0.33             | 0.39             |
|                  |                         | PI                                   | 0.88             | 0.88             | 0.89             | 0.89             | 0.89             | 0.88             | 0.88             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             |
|                  | 95°F<br>35.0°C          | TC                                   | 9814             | 10315            | 10731            | 10804            | 11298            | 10400            | 10440            | 10740            | 10816            | 11310            | 10883            | 10897            | 10931            | 10944            | 11320            | 11767            | 11811            | 11842            | 11845            | 11858            |
|                  |                         | S/T                                  | 0.49             | 0.50             | 0.50             | 0.50             | 0.50             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

## COOLING PERFORMANCE 24K

Table 19: COOLING PERFORMANCE 24K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 706              | -13°F<br>-25.0°C        | TC                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | S/T                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | PI                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -4°F<br>-20.0°C         | TC                                 | 17546            | 17543            | 17960            | 17957            | 17954            | 18361            | 18357            | 18655            | 18652            | 18648            | 18939            | 18935            | 19490            | 19487            | 19483            | 20025            | 20019            | 9871             | 9871             | 9867             |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.78             | 0.86             | 0.67             | 0.75             | 0.63             | 0.67             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.45             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 0.69             | 0.69             | 0.69             |
|                  | 0°F<br>-17.8°C          | TC                                 | 18895            | 18892            | 19342            | 19339            | 19335            | 19773            | 19769            | 20090            | 20087            | 20083            | 20396            | 20391            | 20990            | 20986            | 20982            | 21565            | 21559            | 10630            | 10630            | 10626            |
|                  |                         | S/T                                | 0.80             | 0.89             | 0.74             | 0.78             | 0.86             | 0.68             | 0.76             | 0.63             | 0.68             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 0.72             | 0.72             | 0.72             |
|                  | 5°F<br>-15.0°C          | TC                                 | 19509            | 19505            | 19966            | 19963            | 19958            | 20408            | 20403            | 20731            | 20728            | 20723            | 21044            | 21038            | 21646            | 21643            | 21638            | 22231            | 22224            | 10959            | 10958            | 10954            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 0.73             | 0.73             | 0.73             |
|                  | 14°F<br>-10.0°C         | TC                                 | 20125            | 20278            | 20635            | 20633            | 20781            | 21128            | 21127            | 21494            | 21494            | 21493            | 21850            | 21850            | 22553            | 22549            | 22547            | 23232            | 23228            | 11451            | 11451            | 11451            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 0.75             | 0.75             | 0.75             |
|                  | 17°F<br>-8.3°C          | TC                                 | 20070            | 20119            | 20605            | 20602            | 20649            | 21122            | 21118            | 21504            | 21502            | 21497            | 21874            | 21869            | 22600            | 22596            | 22591            | 23303            | 23296            | 11478            | 11477            | 11474            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 23°F<br>-5.0°C          | TC                                 | 20067            | 20212            | 20602            | 20599            | 20739            | 21119            | 21116            | 21503            | 21502            | 21501            | 21877            | 21879            | 22628            | 22624            | 22623            | 23351            | 23348            | 11499            | 11498            | 11499            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 35°F<br>1.7°C           | TC                                 | 20570            | 20760            | 21124            | 21129            | 21314            | 21667            | 21666            | 22071            | 22070            | 22070            | 22463            | 22463            | 23240            | 23236            | 23234            | 23990            | 23986            | 11818            | 11818            | 11818            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 0.77             | 0.77             | 0.77             |
|                  | 41°F<br>5.0°C           | TC                                 | 21714            | 21728            | 22284            | 22283            | 22296            | 22837            | 22835            | 23241            | 23238            | 23237            | 23632            | 23628            | 24387            | 24384            | 24380            | 25118            | 25115            | 12384            | 12383            | 12383            |
|                  |                         | S/T                                | 0.78             | 0.86             | 0.72             | 0.76             | 0.83             | 0.66             | 0.74             | 0.62             | 0.66             | 0.73             | 0.58             | 0.65             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.72             | 1.72             | 1.78             | 1.78             | 1.78             | 1.82             | 1.82             | 1.86             | 1.86             | 1.86             | 1.89             | 1.89             | 1.99             | 1.99             | 1.99             | 2.06             | 2.06             | 0.89             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                 | 21428            | 21452            | 21984            | 21982            | 22006            | 22529            | 22527            | 22921            | 22919            | 22917            | 23306            | 23302            | 24042            | 24039            | 24034            | 24762            | 24759            | 12278            | 12277            | 12277            |
|                  |                         | S/T                                | 0.79             | 0.87             | 0.72             | 0.77             | 0.84             | 0.67             | 0.74             | 0.62             | 0.66             | 0.73             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.71             | 1.71             | 1.71             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.83             | 1.83             | 1.92             | 1.92             | 1.92             | 1.99             | 1.99             | 0.89             | 0.89             | 0.89             |
|                  | 50°F<br>10.0°C          | TC                                 | 21139            | 21174            | 21680            | 21679            | 21714            | 22217            | 22215            | 22600            | 22598            | 22596            | 22980            | 22976            | 23696            | 23693            | 23689            | 24406            | 24402            | 12171            | 12171            | 12170            |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.77             | 0.85             | 0.67             | 0.75             | 0.63             | 0.67             | 0.74             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.53             | 0.25             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.59             | 1.64             | 1.64             | 1.64             | 1.68             | 1.68             | 1.73             | 1.73             | 1.73             | 1.76             | 1.76             | 1.85             | 1.85             | 1.85             | 1.93             | 1.93             | 0.90             | 0.90             | 0.90             |
|                  | 59°F<br>15.0°C          | TC                                 | 20785            | 21181            | 21328            | 21414            | 21801            | 21854            | 21897            | 22311            | 22313            | 22358            | 22759            | 22764            | 23646            | 23642            | 23649            | 24500            | 24507            | 12076            | 12075            | 12086            |
|                  |                         | S/T                                | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                 | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.82             | 0.82             | 0.82             |
|                  | 68°F<br>20.0°C          | TC                                 | 20210            | 20645            | 20792            | 20851            | 21233            | 21197            | 21268            | 21684            | 21681            | 21747            | 22122            | 22123            | 23055            | 23051            | 23055            | 23893            | 23898            | 11340            | 11340            | 11348            |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                 | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 77°F<br>25.0°C          | TC                                 | 19664            | 20138            | 20240            | 20298            | 20672            | 20549            | 20685            | 21057            | 21055            | 21171            | 21482            | 21482            | 22459            | 22454            | 22456            | 23270            | 23275            | 10594            | 10594            | 10602            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.87             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 82°F<br>27.8°C          | TC                                 | 19067            | 19580            | 19635            | 19694            | 20060            | 19899            | 20125            | 20424            | 20432            | 20609            | 20839            | 20852            | 21871            | 21865            | 21878            | 22658            | 22668            | 9851             | 9851             | 9862             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 0.81             | 0.81             | 0.81             |
|                  | 86°F<br>30.0°C          | TC                                 | 19030            | 19568            | 19598            | 19659            | 20040            | 19837            | 20112            | 20374            | 20382            | 20596            | 20791            | 20812            | 21849            | 21843            | 21861            | 22651            | 22663            | 9809             | 9810             | 9823             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.79             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 0.82             | 0.82             | 0.82             |
|                  | 95°F<br>35.0°C          | TC                                 | 19367            | 19936            | 19949            | 20013            | 20426            | 20167            | 20493            | 20708            | 20719            | 20983            | 21145            | 21173            | 22215            | 22210            | 22233            | 23066            | 23076            | 10248            | 10250            | 10263            |
|                  |                         | S/T                                | 0.93             | 0.99             | 0.84             | 0.90             | 0.95             | 0.79             | 0.90             | 0.73             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                 | 1.80             | 1.81             | 1.81             | 1.81             | 1.82             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 0.87             | 0.87             | 0.87             |
|                  | 104°F<br>40.0°C         | TC                                 | 19699            | 19967            | 20387            | 20395            | 20631            | 21001            | 21001            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 19: COOLING PERFORMANCE 24K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 918              | -13°F<br>-25.0°C        | TC                                   | 8549             | 8948             | 8811             | 8842             | 9091             | 8857             | 9090             | 9057             | 9098             | 9307             | 9245             | 9319             | 9728             | 9725             | 9794             | 10159            | 10158            | 4797             | 4797             | 4798             |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 1.32             | 1.33             | 1.33             | 1.33             | 1.34             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.36             | 1.37             | 1.37             | 0.68             | 0.68             | 0.68             |
|                  | -4°F<br>-20.0°C         | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 0°F<br>-17.8°C          | TC                                   | 20544            | 20752            | 21006            | 21003            | 21211            | 21467            | 21460            | 21795            | 21791            | 21783            | 22121            | 22113            | 22736            | 22732            | 22722            | 23351            | 23341            | 11694            | 11693            | 11686            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.76             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.78             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.78             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.80             | 0.80             | 0.80             |
|                  | 5°F<br>-15.0°C          | TC                                   | 22124            | 22348            | 22622            | 22618            | 22842            | 23118            | 23111            | 23471            | 23467            | 23459            | 23823            | 23813            | 24485            | 24481            | 24470            | 25148            | 25136            | 12593            | 12593            | 12585            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.77             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.79             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.85             | 1.84             | 1.84             | 1.84             | 1.83             | 1.83             | 1.83             | 1.82             | 1.83             | 1.83             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 0.83             | 0.83             | 0.83             |
|                  | 14°F<br>-10.0°C         | TC                                   | 22846            | 23127            | 23355            | 23351            | 23631            | 23862            | 23853            | 24222            | 24217            | 24206            | 24581            | 24568            | 25250            | 25246            | 25237            | 25926            | 25925            | 12986            | 12985            | 12986            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.80             | 0.62             | 0.71             | 0.54             | 0.58             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 0.85             | 0.85             | 0.85             |
|                  | 17°F<br>-8.3°C          | TC                                   | 23602            | 23948            | 24158            | 24174            | 24522            | 24696            | 24710            | 25106            | 25105            | 25121            | 25517            | 25519            | 26299            | 26296            | 26299            | 27080            | 27078            | 13564            | 13563            | 13564            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.72             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.92             | 1.92             | 0.87             | 0.87             | 0.87             |
|                  | 23°F<br>-5.0°C          | TC                                   | 23494            | 23825            | 24094            | 24090            | 24421            | 24692            | 24684            | 25121            | 25116            | 25108            | 25549            | 25538            | 26364            | 26359            | 26348            | 27179            | 27167            | 13601            | 13600            | 13591            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 35°F<br>1.7°C           | TC                                   | 23525            | 23874            | 24107            | 24120            | 24476            | 24680            | 24688            | 25111            | 25111            | 25126            | 25548            | 25552            | 26384            | 26381            | 26386            | 27217            | 27216            | 13620            | 13619            | 13622            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.85             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 41°F<br>5.0°C           | TC                                   | 24132            | 24530            | 24741            | 24762            | 25162            | 25325            | 25345            | 25778            | 25777            | 25799            | 26231            | 26234            | 27098            | 27095            | 27098            | 27963            | 27961            | 13998            | 13998            | 14000            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                   | 25450            | 25613            | 26081            | 26079            | 26242            | 26713            | 26711            | 27156            | 27155            | 27153            | 27601            | 27599            | 28429            | 28425            | 28422            | 29257            | 29253            | 14655            | 14654            | 14654            |
|                  |                         | S/T                                  | 0.81             | 0.91             | 0.74             | 0.79             | 0.88             | 0.68             | 0.77             | 0.64             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                   | 1.95             | 1.96             | 2.01             | 2.01             | 2.02             | 2.06             | 2.06             | 2.11             | 2.11             | 2.11             | 2.15             | 2.15             | 2.25             | 2.25             | 2.25             | 2.33             | 2.33             | 1.02             | 1.02             | 1.02             |
|                  | 50°F<br>10.0°C          | TC                                   | 25086            | 25321            | 25729            | 25730            | 25937            | 26351            | 26349            | 26783            | 26782            | 26780            | 27222            | 27220            | 28029            | 28026            | 28022            | 28845            | 28841            | 14530            | 14529            | 14528            |
|                  |                         | S/T                                  | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.86             | 1.89             | 1.93             | 1.93             | 1.95             | 1.98             | 1.98             | 2.03             | 2.03             | 2.03             | 2.07             | 2.07             | 2.17             | 2.17             | 2.17             | 2.26             | 2.26             | 1.03             | 1.03             | 1.03             |
|                  | 59°F<br>15.0°C          | TC                                   | 24786            | 25026            | 25374            | 25384            | 25630            | 25987            | 25985            | 26410            | 26408            | 26407            | 26844            | 26842            | 27631            | 27627            | 27624            | 28436            | 28431            | 14405            | 14405            | 14404            |
|                  |                         | S/T                                  | 0.83             | 0.92             | 0.76             | 0.81             | 0.89             | 0.70             | 0.78             | 0.65             | 0.70             | 0.78             | 0.61             | 0.69             | 0.53             | 0.57             | 0.65             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.79             | 1.82             | 1.86             | 1.86             | 1.88             | 1.92             | 1.92             | 1.96             | 1.96             | 1.96             | 2.00             | 2.00             | 2.10             | 2.10             | 2.10             | 2.18             | 2.18             | 1.04             | 1.04             | 1.04             |
|                  | 68°F<br>20.0°C          | TC                                   | 24552            | 25075            | 25197            | 25275            | 25752            | 25544            | 25764            | 26048            | 26069            | 26290            | 26572            | 26599            | 27558            | 27554            | 27590            | 28548            | 28562            | 14302            | 14306            | 14325            |
|                  |                         | S/T                                  | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 1.99             | 1.99             | 0.95             | 0.95             | 0.95             |
|                  | 77°F<br>25.0°C          | TC                                   | 23877            | 24460            | 24521            | 24597            | 25085            | 24781            | 25105            | 25313            | 25331            | 25634            | 25811            | 25850            | 26858            | 26852            | 26897            | 27834            | 27843            | 13434            | 13437            | 13451            |
|                  |                         | S/T                                  | 0.92             | 0.99             | 0.84             | 0.90             | 0.94             | 0.79             | 0.90             | 0.72             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                   | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 1.98             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 0.94             | 0.94             | 0.94             |
|                  | 82°F<br>27.8°C          | TC                                   | 23232            | 23938            | 23854            | 23927            | 24422            | 24032            | 24467            | 24581            | 24602            | 24978            | 25051            | 25109            | 26148            | 26142            | 26201            | 27097            | 27104            | 12553            | 12556            | 12566            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.49             | 0.60             | 0.29             | 0.30             | 0.35             |
|                  |                         | PI                                   | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 0.94             | 0.94             | 0.94             |
|                  | 86°F<br>30.0°C          | TC                                   | 22529            | 23318            | 23125            | 23198            | 23697            | 23265            | 23780            | 23832            | 23861            | 24272            | 24283            | 24362            | 25439            | 25433            | 25511            | 26366            | 26377            | 11674            | 11677            | 11690            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.70             | 0.82             | 0.60             | 0.66             | 0.77             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.96             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 0.93             | 0.93             | 0.93             |
|                  | 95°F<br>35.0°C          | TC                                   | 22494            | 23335            | 23082            | 23157            | 23678            | 23200            | 23768            | 23774            | 23809            | 24259            | 24226            | 24323            | 25409            | 25412            | 25498            | 26355            | 26376            | 11626            | 11629            | 11644            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             | 0.61             |                  |                  |                  |

Table 19: COOLING PERFORMANCE 24K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1341             | -13°F<br>-25.0°C        | TC                                   | 14604            | 15091            | 15050            | 15102            | 15450            | 15154            | 15450            | 15511            | 15524            | 15811            | 15851            | 15883            | 16558            | 16554            | 16586            | 17238            | 17241            | 8473             | 8475             | 8481             |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.84             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.72             | 1.73             | 1.73             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.79             | 1.79             | 1.79             | 1.81             | 1.81             | 0.92             | 0.92             | 0.92             |
|                  | -4°F<br>-20.0°C         | TC                                   | 10133            | 10669            | 10389            | 10441            | 10866            | 10451            | 10739            | 10679            | 10719            | 10983            | 10789            | 10996            | 11323            | 11331            | 11527            | 11821            | 11823            | 5678             | 5678             | 5677             |
|                  |                         | S/T                                  | 1.00             | 1.00             | 0.88             | 0.96             | 1.00             | 0.88             | 0.96             | 0.81             | 0.88             | 0.95             | 0.77             | 0.88             | 0.65             | 0.72             | 0.82             | 0.53             | 0.66             | 0.32             | 0.33             | 0.40             |
|                  |                         | PI                                   | 1.51             | 1.52             | 1.51             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.52             | 1.53             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 0.78             | 0.78             | 0.78             |
|                  | 0°F<br>-17.8°C          | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 5°F<br>-15.0°C          | TC                                   | 24117            | 24463            | 24569            | 24633            | 24990            | 25102            | 25086            | 25471            | 25463            | 25446            | 25848            | 25833            | 26546            | 26541            | 26522            | 27267            | 27244            | 13869            | 13866            | 13845            |
|                  |                         | S/T                                  | 0.88             | 0.94             | 0.80             | 0.86             | 0.90             | 0.73             | 0.83             | 0.67             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.68             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.03             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.01             | 2.01             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 0.93             | 0.93             |
|                  | 14°F<br>-10.0°C         | TC                                   | 25972            | 26344            | 26458            | 26528            | 26912            | 27033            | 27016            | 27430            | 27422            | 27403            | 27837            | 27820            | 28588            | 28583            | 28562            | 29365            | 29339            | 14936            | 14932            | 14910            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.80             | 0.87             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.10             | 2.10             | 2.10             | 2.10             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 0.97             | 0.97             |
|                  | 17°F<br>-8.3°C          | TC                                   | 26907            | 27269            | 27381            | 27475            | 27849            | 27909            | 27896            | 28312            | 28302            | 28287            | 28724            | 28703            | 29487            | 29480            | 29468            | 30295            | 30301            | 15412            | 15414            | 15425            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.82             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.84             | 0.64             | 0.74             | 0.56             | 0.60             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 0.99             | 0.99             |
|                  | 23°F<br>-5.0°C          | TC                                   | 27806            | 28241            | 28394            | 28462            | 28900            | 28863            | 28936            | 29327            | 29326            | 29403            | 29806            | 29807            | 30681            | 30676            | 30678            | 31581            | 31584            | 16066            | 16068            | 16076            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.14             | 2.14             | 2.14             | 2.14             | 2.15             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.18             | 2.18             | 2.18             | 2.20             | 2.20             | 1.02             | 1.02             | 1.02             |
|                  | 35°F<br>1.7°C           | TC                                   | 27665            | 28085            | 28227            | 28341            | 28774            | 28860            | 28844            | 29351            | 29343            | 29324            | 29853            | 29834            | 30778            | 30771            | 30747            | 31732            | 31704            | 16128            | 16125            | 16100            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.12             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 0.99             | 0.99             |
|                  | 41°F<br>5.0°C           | TC                                   | 27760            | 28207            | 28366            | 28449            | 28911            | 28898            | 28967            | 29351            | 29357            | 29436            | 29831            | 29840            | 30806            | 30801            | 30807            | 31798            | 31807            | 16161            | 16164            | 16179            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.74             | 0.85             | 0.69             | 0.75             | 0.84             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 0.99             | 0.99             |
|                  | 47°F<br>8.3°C           | TC                                   | 28461            | 28943            | 29110            | 29185            | 29666            | 29598            | 29688            | 30110            | 30110            | 30204            | 30640            | 30642            | 31610            | 31606            | 31609            | 32608            | 32614            | 16579            | 16581            | 16593            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.21             | 2.21             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.24             | 2.24             | 2.24             | 2.26             | 2.26             | 1.04             | 1.04             | 1.04             |
|                  | 50°F<br>10.0°C          | TC                                   | 29856            | 30234            | 30543            | 30558            | 30950            | 31240            | 31238            | 31733            | 31732            | 31731            | 32242            | 32243            | 33159            | 33156            | 33154            | 34108            | 34101            | 17352            | 17355            | 17352            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.27             | 0.27             | 0.31             |
|                  |                         | PI                                   | 2.22             | 2.26             | 2.30             | 2.30             | 2.33             | 2.35             | 2.35             | 2.41             | 2.41             | 2.41             | 2.45             | 2.45             | 2.57             | 2.57             | 2.57             | 2.67             | 2.67             | 1.19             | 1.19             | 1.19             |
|                  | 59°F<br>15.0°C          | TC                                   | 29475            | 29885            | 30144            | 30162            | 30592            | 30819            | 30830            | 31300            | 31299            | 31311            | 31803            | 31803            | 32697            | 32694            | 32692            | 33632            | 33625            | 17205            | 17207            | 17204            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 2.14             | 2.18             | 2.21             | 2.21             | 2.25             | 2.27             | 2.27             | 2.32             | 2.32             | 2.33             | 2.37             | 2.37             | 2.49             | 2.49             | 2.49             | 2.58             | 2.58             | 1.20             | 1.20             | 1.20             |
|                  | 68°F<br>20.0°C          | TC                                   | 29097            | 29532            | 29745            | 29770            | 30232            | 30397            | 30417            | 30867            | 30865            | 30888            | 31364            | 31363            | 32237            | 32233            | 32233            | 33161            | 33154            | 17062            | 17061            | 17059            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.68             | 0.47             | 0.55             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.06             | 2.11             | 2.13             | 2.13             | 2.17             | 2.19             | 2.19             | 2.24             | 2.24             | 2.24             | 2.29             | 2.29             | 2.40             | 2.40             | 2.40             | 2.50             | 2.50             | 1.21             | 1.21             | 1.21             |
|                  | 77°F<br>25.0°C          | TC                                   | 28949            | 29744            | 29704            | 29799            | 30427            | 29901            | 30378            | 30461            | 30500            | 30994            | 31029            | 31119            | 32127            | 32135            | 32246            | 33285            | 33315            | 16956            | 16961            | 16984            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.28             | 2.28             | 1.10             | 1.10             | 1.10             |
|                  | 82°F<br>27.8°C          | TC                                   | 28165            | 29082            | 28892            | 28984            | 29631            | 29013            | 29600            | 29593            | 29636            | 30202            | 30128            | 30245            | 31298            | 31303            | 31433            | 32444            | 32465            | 15928            | 15932            | 15948            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.84             | 0.91             | 0.71             | 0.83             | 0.60             | 0.67             | 0.78             | 0.50             | 0.61             | 0.30             | 0.31             | 0.36             |
|                  |                         | PI                                   | 2.27             | 2.27             | 2.27             | 2.27             | 2.28             | 2.27             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 1.10             | 1.10             |
|                  | 86°F<br>30.0°C          | TC                                   | 27416            | 28448            | 28086            | 28174            | 28852            | 28208            | 28844            | 28742            | 28841            | 29409            | 29226            | 29413            | 30456            | 30462            | 30645            | 31574            | 31591            | 14885            | 14888            | 14899            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.78             | 0.86             | 0.92             | 0.72             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 2.25             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.29             | 2.29             | 2.29             | 2.30             | 2.30             | 1.09             | 1.09             | 1.09             |
|                  | 95°F<br>35.0°C          | TC                                   | 26596            | 27705            | 27206            | 27295            | 28015            | 27358            | 28034            | 27876            | 27999            | 28556            | 28329            | 28614            | 29598            | 29628            | 29887            | 30692            | 30723            | 13842            | 13845            | 13860            |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.79             | 0.87             | 0.92             | 0.73</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 19: COOLING PERFORMANCE 24K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1588             | -13°F<br>-25.0°C        | TC                                 | 21272            | 22021            | 21908            | 21984            | 22508            | 22004            | 22464            | 22480            | 22508            | 22977            | 22944            | 23017            | 23899            | 23893            | 23973            | 24868            | 24872            | 12542            | 12544            | 12554            |
|                  |                         | S/T                                | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             | 0.61             | 0.30             | 0.30             | 0.36             |
|                  |                         | PI                                 | 2.16             | 2.19             | 2.19             | 2.19             | 2.21             | 2.19             | 2.21             | 2.21             | 2.21             | 2.23             | 2.23             | 2.23             | 2.26             | 2.26             | 2.26             | 2.30             | 2.30             | 1.20             | 1.20             | 1.20             |
|                  | -4°F<br>-20.0°C         | TC                                 | 17235            | 17947            | 17738            | 17799            | 18276            | 17809            | 18211            | 18153            | 18239            | 18640            | 18506            | 18646            | 19295            | 19290            | 19438            | 20084            | 20084            | 10036            | 10038            | 10043            |
|                  |                         | S/T                                | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.63             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                 | 1.97             | 1.99             | 1.99             | 1.99             | 2.01             | 1.99             | 2.00             | 2.00             | 2.01             | 2.02             | 2.02             | 2.02             | 2.05             | 2.05             | 2.05             | 2.07             | 2.07             | 1.07             | 1.07             | 1.07             |
|                  | 0°F<br>-17.8°C          | TC                                 | 12016            | 12645            | 12209            | 12304            | 12895            | 12281            | 12651            | 12540            | 12586            | 12929            | 12586            | 12919            | 13172            | 13204            | 13525            | 13735            | 13744            | 6710             | 6709             | 6706             |
|                  |                         | S/T                                | 1.00             | 1.00             | 0.90             | 0.99             | 1.00             | 0.90             | 0.99             | 0.82             | 0.91             | 0.98             | 0.81             | 0.91             | 0.68             | 0.76             | 0.83             | 0.55             | 0.69             | 0.33             | 0.34             | 0.42             |
|                  |                         | PI                                 | 1.73             | 1.75             | 1.74             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.77             | 1.78             | 1.78             | 0.91             | 0.91             |
|                  | 5°F<br>-15.0°C          | TC                                 | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                 | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 14°F<br>-10.0°C         | TC                                 | 28400            | 28774            | 28946            | 28995            | 29394            | 29354            | 29329            | 29778            | 29758            | 29732            | 30220            | 30186            | 31021            | 31014            | 30968            | 31870            | 31833            | 16451            | 16445            | 16410            |
|                  |                         | S/T                                | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.56             | 0.61             | 0.71             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 2.34             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 1.10             | 1.10             | #VALUE!          |
|                  | 17°F<br>-8.3°C          | TC                                 | 30585            | 30988            | 31172            | 31225            | 31655            | 31612            | 31585            | 32069            | 32047            | 32019            | 32544            | 32508            | 33407            | 33400            | 33350            | 34322            | 34282            | 17717            | 17710            | #VALUE!          |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.76             | 0.87             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.57             | 0.62             | 0.71             | 0.48             | 0.57             | 0.28             | #VALUE!          | #VALUE!          |
|                  |                         | PI                                 | 2.42             | 2.42             | 2.42             | 2.42             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.42             | 2.42             | 2.42             | 1.14             | (9.86)           | 4973.94          |
|                  | 23°F<br>-5.0°C          | TC                                 | 31663            | 32079            | 32267            | 32318            | 32760            | 32639            | 32779            | 33103            | 33078            | 33227            | 33585            | 33553            | 34459            | 34452            | 34442            | 35436            | 35443            | 18307            | 18303            | 23708            |
|                  |                         | S/T                                | 0.91             | 0.96             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.49             | 0.58             | 0.28             | (1.71)           | 5801.94          |
|                  |                         | PI                                 | 2.44             | 2.45             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 1.16             | 1.16             | 5986.94          |
|                  | 35°F<br>1.7°C           | TC                                 | 32710            | 33262            | 33395            | 33478            | 34008            | 33758            | 34006            | 34263            | 34286            | 34549            | 34823            | 34851            | 35811            | 35806            | 35839            | 36863            | 36865            | 19049            | 19054            | 25276            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 7.29             | 6626.59          |
|                  |                         | PI                                 | 2.47             | 2.47             | 2.47             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             | 2.49             | 2.49             | 2.49             | 2.52             | 2.52             | 2.52             | 2.55             | 2.55             | 1.20             | 9.70             | 6764.20          |
|                  | 41°F<br>5.0°C           | TC                                 | 32571            | 33058            | 33291            | 33356            | 33873            | 33758            | 33895            | 34318            | 34295            | 34440            | 34902            | 34862            | 35972            | 35963            | 35911            | 37109            | 37065            | 19143            | 19148            | 25922            |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.83             | 0.88             | 0.93             | 0.76             | 0.88             | 0.70             | 0.76             | 0.87             | 0.66             | 0.76             | 0.57             | 0.62             | 0.72             | 0.48             | 0.58             | 0.28             | 17.79            | 6954.84          |
|                  |                         | PI                                 | 2.46             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.46             | 1.16             | 21.66            | 6278.67          |
|                  | 47°F<br>8.3°C           | TC                                 | 32588            | 33162            | 33310            | 33400            | 33958            | 33720            | 33958            | 34264            | 34285            | 34537            | 34861            | 34888            | 35932            | 35928            | 35947            | 37056            | 37066            | 19124            | 19151            | 24744            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.93             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.49             | 0.58             | 0.28             | 25.29            | 5504.00          |
|                  |                         | PI                                 | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.44             | 2.44             | 2.45             | 2.45             | 2.46             | 2.46             | 1.16             | 30.66            | 5214.30          |
|                  | 50°F<br>10.0°C          | TC                                 | 33488            | 34104            | 34246            | 34337            | 34919            | 34621            | 34916            | 35176            | 35206            | 35519            | 35796            | 35830            | 36892            | 36886            | 36929            | 38060            | 38065            | 19658            | 19695            | 24595            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.59             | 0.29             | 38.79            | 4632.42          |
|                  |                         | PI                                 | 2.54             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.57             | 2.59             | 2.59             | 2.59             | 2.62             | 2.62             | 1.22             | 42.22            | 4705.89          |
|                  | 59°F<br>15.0°C          | TC                                 | 35045            | 35594            | 35793            | 35843            | 36431            | 36530            | 36576            | 37082            | 37081            | 37132            | 37673            | 37673            | 38697            | 38693            | 38694            | 39787            | 39784            | 20560            | 20602            | 25618            |
|                  |                         | S/T                                | 0.88             | 0.94             | 0.80             | 0.86             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 47.78            | 5853.33          |
|                  |                         | PI                                 | 2.58             | 2.64             | 2.65             | 2.66             | 2.71             | 2.72             | 2.72             | 2.78             | 2.78             | 2.78             | 2.83             | 2.83             | 2.97             | 2.97             | 2.97             | 3.08             | 3.08             | 1.40             | 53.40            | 5198.46          |
|                  | 68°F<br>20.0°C          | TC                                 | 34684            | 35181            | 35348            | 35473            | 36011            | 36038            | 36099            | 36579            | 36577            | 36644            | 37162            | 37162            | 38164            | 38159            | 38159            | 39241            | 39238            | 20387            | 20441            | 25192            |
|                  |                         | S/T                                | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.56             | 0.60             | 0.69             | 0.48             | 0.56             | 0.27             | 57.78            | 4042.04          |
|                  |                         | PI                                 | 2.49             | 2.54             | 2.56             | 2.57             | 2.62             | 2.62             | 2.63             | 2.68             | 2.68             | 2.69             | 2.74             | 2.74             | 2.87             | 2.87             | 2.87             | 2.98             | 2.98             | 1.41             | 62.41            | 3027.41          |
|                  | 77°F<br>25.0°C          | TC                                 | 34275            | 34776            | 34975            | 35055            | 35591            | 35548            | 35626            | 36075            | 36074            | 36161            | 36652            | 36650            | 37632            | 37627            | 37625            | 38697            | 38694            | 20216            | 20215            | 20217            |
|                  |                         | S/T                                | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                 | 2.41             | 2.46             | 2.48             | 2.48             | 2.53             | 2.53             | 2.54             | 2.59             | 2.59             | 2.60             | 2.65             | 2.65             | 2.77             | 2.77             | 2.77             | 2.89             | 2.89             | 1.42             | 1.42             | 1.42             |
|                  | 82°F<br>27.8°C          | TC                                 | 34092            | 35222            | 34963            | 35077            | 35900            | 35044            | 35742            | 35657            | 35737            | 36481            | 36258            | 36451            | 37466            | 37516            | 37745            | 38825            | 38901            | 20109            | 20115            | 20141            |
|                  |                         | S/T                                | 0.95             | 1.00             | 0.86             | 0.92             | 0.98             | 0.85             | 0.92             | 0.78             | 0.85             | 0.91             | 0.72             | 0.85             | 0.61             | 0.68             | 0.79             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                 | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 1.29             | 1.29             | 1.29             |
|                  | 86°F<br>30.0°C          | TC                                 | 33170            | 34430            | 33987            | 34114            | 35004            | 34111            | 34836            | 34681            | 34826            | 35529            | 35211            | 35540            | 36487            | 36550            | 36897            | 37836            | 37889            | 18892            | 18896            | 18912            |
|                  |                         | S/T                                | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.80             | 0.87             | 0.93             | 0.73             | 0.87             | 0.62             | 0.69             | 0.81             | 0.52             | 0.63             | 0.31             | 0.32             | 0.38             |
|                  |                         | PI                                 | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.64             | 2.63             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.65             | 1.29             | 1.29             | 1.29             |
|                  | 95°F<br>35.0°C          | TC                                 | 32238            | 33610            | 32964            | 33104            | 34131            | 33123            | 33899            | 33717            | 33831            | 34544            | 34101            | 34567            | 35456            | 35506            | 35953            | 36747            | 36789            | 17627            | 17630            | 17639            |
|                  |                         | S/T                                | 0.98             | 1.00             | 0.87             | 0.94             | 1.00             | 0.87             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

## COOLING PERFORMANCE 30K

Table 20: COOLING PERFORMANCE 30K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882              | -13°F<br>-25.0°C        | TC                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | S/T                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | PI                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -4°F<br>-20.0°C         | TC                                 | 17546            | 17543            | 17960            | 17957            | 17954            | 18361            | 18357            | 18655            | 18652            | 18648            | 18939            | 18935            | 19490            | 19487            | 19483            | 20025            | 20019            | 9871             | 9871             | 9867             |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.78             | 0.86             | 0.67             | 0.75             | 0.63             | 0.67             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.45             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 0.69             | 0.69             | 0.69             |
|                  | 0°F<br>-17.8°C          | TC                                 | 18895            | 18892            | 19342            | 19339            | 19335            | 19773            | 19769            | 20090            | 20087            | 20083            | 20396            | 20391            | 20990            | 20986            | 20982            | 21565            | 21559            | 10630            | 10630            | 10626            |
|                  |                         | S/T                                | 0.80             | 0.89             | 0.74             | 0.78             | 0.86             | 0.68             | 0.76             | 0.63             | 0.68             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 0.72             | 0.72             | 0.72             |
|                  | 5°F<br>-15.0°C          | TC                                 | 19509            | 19505            | 19966            | 19963            | 19958            | 20408            | 20403            | 20731            | 20728            | 20723            | 21044            | 21038            | 21646            | 21643            | 21638            | 22231            | 22224            | 10959            | 10958            | 10954            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 0.73             | 0.73             | 0.73             |
|                  | 14°F<br>-10.0°C         | TC                                 | 20125            | 20278            | 20635            | 20633            | 20781            | 21128            | 21127            | 21494            | 21494            | 21493            | 21850            | 21850            | 22553            | 22549            | 22547            | 23232            | 23228            | 11451            | 11451            | 11451            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 0.75             | 0.75             |
|                  | 17°F<br>-8.3°C          | TC                                 | 20070            | 20119            | 20605            | 20602            | 20649            | 21122            | 21118            | 21504            | 21502            | 21497            | 21874            | 21869            | 22600            | 22596            | 22591            | 23303            | 23296            | 11478            | 11477            | 11474            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 23°F<br>-5.0°C          | TC                                 | 20067            | 20212            | 20602            | 20599            | 20739            | 21119            | 21116            | 21503            | 21502            | 21501            | 21877            | 21879            | 22628            | 22624            | 22623            | 23351            | 23348            | 11499            | 11498            | 11499            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 35°F<br>1.7°C           | TC                                 | 20570            | 20760            | 21124            | 21129            | 21314            | 21667            | 21666            | 22071            | 22070            | 22070            | 22463            | 22463            | 23240            | 23236            | 23234            | 23990            | 23986            | 11818            | 11818            | 11818            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.73             | 1.74             | 1.74             | 0.77             | 0.77             | 0.77             |
|                  | 41°F<br>5.0°C           | TC                                 | 21714            | 21728            | 22284            | 22283            | 22296            | 22837            | 22835            | 23241            | 23238            | 23237            | 23632            | 23628            | 24387            | 24384            | 24380            | 25118            | 25115            | 12384            | 12383            | 12383            |
|                  |                         | S/T                                | 0.78             | 0.86             | 0.72             | 0.76             | 0.83             | 0.66             | 0.74             | 0.62             | 0.66             | 0.73             | 0.58             | 0.65             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.72             | 1.72             | 1.78             | 1.78             | 1.78             | 1.82             | 1.82             | 1.86             | 1.86             | 1.86             | 1.89             | 1.89             | 1.99             | 1.99             | 1.99             | 2.06             | 2.06             | 0.89             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                 | 21428            | 21452            | 21984            | 21982            | 22006            | 22529            | 22527            | 22921            | 22919            | 22917            | 23306            | 23302            | 24042            | 24039            | 24034            | 24762            | 24759            | 12278            | 12277            | 12277            |
|                  |                         | S/T                                | 0.79             | 0.87             | 0.72             | 0.77             | 0.84             | 0.67             | 0.74             | 0.62             | 0.66             | 0.73             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.71             | 1.71             | 1.71             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.83             | 1.83             | 1.92             | 1.92             | 1.92             | 1.99             | 1.99             | 0.89             | 0.89             | 0.89             |
|                  | 50°F<br>10.0°C          | TC                                 | 21139            | 21174            | 21680            | 21679            | 21714            | 22217            | 22215            | 22600            | 22598            | 22596            | 22980            | 22976            | 23696            | 23693            | 23689            | 24406            | 24402            | 12171            | 12171            | 12170            |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.77             | 0.85             | 0.67             | 0.75             | 0.63             | 0.67             | 0.74             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.53             | 0.25             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.59             | 1.64             | 1.64             | 1.64             | 1.68             | 1.68             | 1.73             | 1.73             | 1.73             | 1.76             | 1.76             | 1.85             | 1.85             | 1.85             | 1.93             | 1.93             | 0.90             | 0.90             | 0.90             |
|                  | 59°F<br>15.0°C          | TC                                 | 20785            | 21181            | 21328            | 21414            | 21801            | 21854            | 21897            | 22311            | 22313            | 22358            | 22759            | 22764            | 23646            | 23642            | 23649            | 24500            | 24507            | 12076            | 12075            | 12086            |
|                  |                         | S/T                                | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                 | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.82             | 0.82             | 0.82             |
|                  | 68°F<br>20.0°C          | TC                                 | 20210            | 20645            | 20792            | 20851            | 21233            | 21197            | 21268            | 21684            | 21681            | 21747            | 22122            | 22123            | 23055            | 23051            | 23055            | 23893            | 23898            | 11340            | 11340            | 11348            |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                 | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 77°F<br>25.0°C          | TC                                 | 19664            | 20138            | 20240            | 20298            | 20672            | 20549            | 20685            | 21057            | 21055            | 21171            | 21482            | 21482            | 22459            | 22454            | 22456            | 23270            | 23275            | 10594            | 10594            | 10602            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.87             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 82°F<br>27.8°C          | TC                                 | 19067            | 19580            | 19635            | 19694            | 20060            | 19899            | 20125            | 20424            | 20432            | 20609            | 20839            | 20852            | 21871            | 21865            | 21878            | 22658            | 22668            | 9851             | 9851             | 9862             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 0.81             | 0.81             | 0.81             |
|                  | 86°F<br>30.0°C          | TC                                 | 19030            | 19568            | 19598            | 19659            | 20040            | 19837            | 20112            | 20374            | 20382            | 20596            | 20791            | 20812            | 21849            | 21843            | 21861            | 22651            | 22663            | 9809             | 9810             | 9823             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.79             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 0.82             | 0.82             | 0.82             |
|                  | 95°F<br>35.0°C          | TC                                 | 19367            | 19936            | 19949            | 20013            | 20426            | 20167            | 20493            | 20708            | 20719            | 20983            | 21145            | 21173            | 22215            | 22210            | 22233            | 23066            | 23076            | 10248            | 10250            | 10263            |
|                  |                         | S/T                                | 0.93             | 0.99             | 0.84             | 0.90             | 0.95             | 0.79             | 0.90             | 0.73             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                 | 1.80             | 1.81             | 1.81             | 1.81             | 1.82             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 0.87             | 0.87             | 0.87             |
|                  | 104°F<br>40.0°C         | TC                                 | 19699            | 19967            | 20387            | 20395            | 20631            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 20: COOLING PERFORMANCE 30K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1147             | -13°F<br>-25.0°C        | TC                                   | 8549             | 8948             | 8811             | 8842             | 9091             | 8857             | 9090             | 9057             | 9098             | 9307             | 9245             | 9319             | 9728             | 9725             | 9794             | 10159            | 10158            | 4797             | 4797             | 4798             |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 1.32             | 1.33             | 1.33             | 1.33             | 1.34             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.36             | 1.37             | 1.37             | 0.68             | 0.68             |
|                  | -4°F<br>-20.0°C         | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 0°F<br>-17.8°C          | TC                                   | 20544            | 20752            | 21006            | 21003            | 21211            | 21467            | 21460            | 21795            | 21791            | 21783            | 22121            | 22113            | 22736            | 22732            | 22722            | 23351            | 23341            | 11694            | 11693            | 11686            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.76             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.78             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.78             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.80             | 0.80             | 0.80             |
|                  | 5°F<br>-15.0°C          | TC                                   | 22124            | 22348            | 22622            | 22618            | 22842            | 23118            | 23111            | 23471            | 23467            | 23459            | 23823            | 23813            | 24485            | 24481            | 24470            | 25148            | 25136            | 12593            | 12593            | 12585            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.77             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.79             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.85             | 1.84             | 1.84             | 1.84             | 1.83             | 1.83             | 1.83             | 1.82             | 1.83             | 1.83             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 0.83             | 0.83             | 0.83             |
|                  | 14°F<br>-10.0°C         | TC                                   | 22846            | 23127            | 23355            | 23351            | 23631            | 23862            | 23853            | 24222            | 24217            | 24206            | 24581            | 24568            | 25250            | 25246            | 25237            | 25926            | 25925            | 12986            | 12985            | 12986            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.80             | 0.62             | 0.71             | 0.54             | 0.58             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 0.85             | 0.85             | 0.85             |
|                  | 17°F<br>-8.3°C          | TC                                   | 23602            | 23948            | 24158            | 24174            | 24522            | 24696            | 24710            | 25106            | 25105            | 25121            | 25517            | 25519            | 26299            | 26296            | 26299            | 27080            | 27078            | 13564            | 13563            | 13564            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.72             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.92             | 1.92             | 0.87             | 0.87             | 0.87             |
|                  | 23°F<br>-5.0°C          | TC                                   | 23494            | 23825            | 24094            | 24090            | 24421            | 24692            | 24684            | 25121            | 25116            | 25108            | 25549            | 25538            | 26364            | 26359            | 26348            | 27179            | 27167            | 13601            | 13600            | 13591            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 35°F<br>1.7°C           | TC                                   | 23525            | 23874            | 24107            | 24120            | 24476            | 24680            | 24688            | 25111            | 25111            | 25126            | 25548            | 25552            | 26384            | 26381            | 26386            | 27217            | 27216            | 13620            | 13619            | 13622            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.85             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 41°F<br>5.0°C           | TC                                   | 24132            | 24530            | 24741            | 24762            | 25162            | 25325            | 25345            | 25778            | 25777            | 25799            | 26231            | 26234            | 27098            | 27095            | 27098            | 27963            | 27961            | 13998            | 13998            | 14000            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                   | 25450            | 25613            | 26081            | 26079            | 26242            | 26713            | 26711            | 27156            | 27155            | 27153            | 27601            | 27599            | 28429            | 28425            | 28422            | 29257            | 29253            | 14655            | 14654            | 14654            |
|                  |                         | S/T                                  | 0.81             | 0.91             | 0.74             | 0.79             | 0.88             | 0.68             | 0.77             | 0.64             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                   | 1.95             | 1.96             | 2.01             | 2.01             | 2.02             | 2.06             | 2.06             | 2.11             | 2.11             | 2.11             | 2.15             | 2.15             | 2.25             | 2.25             | 2.25             | 2.33             | 2.33             | 1.02             | 1.02             | 1.02             |
|                  | 50°F<br>10.0°C          | TC                                   | 25086            | 25321            | 25729            | 25730            | 25937            | 26351            | 26349            | 26783            | 26782            | 26780            | 27222            | 27220            | 28029            | 28026            | 28022            | 28845            | 28841            | 14530            | 14529            | 14528            |
|                  |                         | S/T                                  | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.86             | 1.89             | 1.93             | 1.93             | 1.95             | 1.98             | 1.98             | 2.03             | 2.03             | 2.03             | 2.07             | 2.07             | 2.17             | 2.17             | 2.17             | 2.26             | 2.26             | 1.03             | 1.03             | 1.03             |
|                  | 59°F<br>15.0°C          | TC                                   | 24786            | 25026            | 25374            | 25384            | 25630            | 25987            | 25985            | 26410            | 26408            | 26407            | 26844            | 26842            | 27631            | 27627            | 27624            | 28436            | 28431            | 14405            | 14405            | 14404            |
|                  |                         | S/T                                  | 0.83             | 0.92             | 0.76             | 0.81             | 0.89             | 0.70             | 0.78             | 0.65             | 0.70             | 0.78             | 0.61             | 0.69             | 0.53             | 0.57             | 0.65             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.79             | 1.82             | 1.86             | 1.86             | 1.88             | 1.92             | 1.92             | 1.96             | 1.96             | 1.96             | 2.00             | 2.00             | 2.10             | 2.10             | 2.10             | 2.18             | 2.18             | 1.04             | 1.04             | 1.04             |
|                  | 68°F<br>20.0°C          | TC                                   | 24552            | 25075            | 25197            | 25275            | 25752            | 25544            | 25764            | 26048            | 26069            | 26290            | 26572            | 26599            | 27558            | 27554            | 27590            | 28548            | 28562            | 14302            | 14306            | 14325            |
|                  |                         | S/T                                  | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 1.99             | 1.99             | 0.95             | 0.95             | 0.95             |
|                  | 77°F<br>25.0°C          | TC                                   | 23877            | 24460            | 24521            | 24597            | 25085            | 24781            | 25105            | 25313            | 25331            | 25634            | 25811            | 25850            | 26858            | 26852            | 26897            | 27834            | 27843            | 13434            | 13437            | 13451            |
|                  |                         | S/T                                  | 0.92             | 0.99             | 0.84             | 0.90             | 0.94             | 0.79             | 0.90             | 0.72             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                   | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 1.98             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 0.94             | 0.94             | 0.94             |
|                  | 82°F<br>27.8°C          | TC                                   | 23232            | 23938            | 23854            | 23927            | 24422            | 24032            | 24467            | 24581            | 24602            | 24978            | 25051            | 25109            | 26148            | 26142            | 26201            | 27097            | 27104            | 12553            | 12556            | 12566            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.49             | 0.60             | 0.29             | 0.30             | 0.35             |
|                  |                         | PI                                   | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 0.94             | 0.94             | 0.94             |
|                  | 86°F<br>30.0°C          | TC                                   | 22529            | 23318            | 23125            | 23198            | 23697            | 23265            | 23780            | 23832            | 23861            | 24272            | 24283            | 24362            | 25439            | 25433            | 25511            | 26366            | 26377            | 11674            | 11677            | 11690            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.70             | 0.82             | 0.60             | 0.66             | 0.77             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.96             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 0.93             | 0.93             | 0.93             |
|                  | 95°F<br>35.0°C          | TC                                   | 22494            | 23335            | 23082            | 23157            | 23678            | 23200            | 23768            | 23774            | 23809            | 24259            | 24226            | 24323            | 25409            | 25412            | 25498            | 26355            | 26376            | 11626            | 11629            | 11644            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             |                  |                  |                  |                  |

Table 20: COOLING PERFORMANCE 30K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C        | TC                                   | 14604            | 15091            | 15050            | 15102            | 15450            | 15154            | 15450            | 15511            | 15524            | 15811            | 15851            | 15883            | 16558            | 16554            | 16586            | 17238            | 17241            | 8473             | 8475             | 8481             |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.84             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.72             | 1.73             | 1.73             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.79             | 1.79             | 1.79             | 1.81             | 1.81             | 0.92             | 0.92             | 0.92             |
|                  | -4°F<br>-20.0°C         | TC                                   | 10133            | 10669            | 10389            | 10441            | 10866            | 10451            | 10739            | 10679            | 10719            | 10983            | 10789            | 10996            | 11323            | 11331            | 11527            | 11821            | 11823            | 5678             | 5678             | 5677             |
|                  |                         | S/T                                  | 1.00             | 1.00             | 0.88             | 0.96             | 1.00             | 0.88             | 0.96             | 0.81             | 0.88             | 0.95             | 0.77             | 0.88             | 0.65             | 0.72             | 0.82             | 0.53             | 0.66             | 0.32             | 0.33             | 0.40             |
|                  |                         | PI                                   | 1.51             | 1.52             | 1.51             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.52             | 1.53             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 0.78             | 0.78             | 0.78             |
|                  | 0°F<br>-17.8°C          | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 5°F<br>-15.0°C          | TC                                   | 24117            | 24463            | 24569            | 24633            | 24990            | 25102            | 25086            | 25471            | 25463            | 25446            | 25848            | 25833            | 26546            | 26541            | 26522            | 27267            | 27244            | 13869            | 13866            | 13845            |
|                  |                         | S/T                                  | 0.88             | 0.94             | 0.80             | 0.86             | 0.90             | 0.73             | 0.83             | 0.67             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.68             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.03             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.01             | 2.01             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 0.93             | 0.93             |
|                  | 14°F<br>-10.0°C         | TC                                   | 25972            | 26344            | 26458            | 26528            | 26912            | 27033            | 27016            | 27430            | 27422            | 27403            | 27837            | 27820            | 28588            | 28583            | 28562            | 29365            | 29339            | 14936            | 14932            | 14910            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.80             | 0.87             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.10             | 2.10             | 2.10             | 2.10             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 0.97             | 0.97             |
|                  | 17°F<br>-8.3°C          | TC                                   | 26907            | 27269            | 27381            | 27475            | 27849            | 27909            | 27896            | 28312            | 28302            | 28287            | 28724            | 28703            | 29487            | 29480            | 29468            | 30295            | 30301            | 15412            | 15414            | 15425            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.82             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.84             | 0.64             | 0.74             | 0.56             | 0.60             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 0.99             | 0.99             |
|                  | 23°F<br>-5.0°C          | TC                                   | 27806            | 28241            | 28394            | 28462            | 28900            | 28863            | 28936            | 29327            | 29326            | 29403            | 29806            | 29807            | 30681            | 30676            | 30678            | 31581            | 31584            | 16066            | 16068            | 16076            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.14             | 2.14             | 2.14             | 2.14             | 2.15             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.18             | 2.18             | 2.18             | 2.20             | 2.20             | 1.02             | 1.02             | 1.02             |
|                  | 35°F<br>1.7°C           | TC                                   | 27665            | 28085            | 28227            | 28341            | 28774            | 28860            | 28844            | 29351            | 29343            | 29324            | 29853            | 29834            | 30778            | 30771            | 30747            | 31732            | 31704            | 16128            | 16125            | 16100            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.12             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 0.99             | 0.99             |
|                  | 41°F<br>5.0°C           | TC                                   | 27760            | 28207            | 28366            | 28449            | 28911            | 28898            | 28967            | 29351            | 29357            | 29436            | 29831            | 29840            | 30806            | 30801            | 30807            | 31798            | 31807            | 16161            | 16164            | 16179            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.74             | 0.85             | 0.69             | 0.75             | 0.84             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 0.99             | 0.99             |
|                  | 47°F<br>8.3°C           | TC                                   | 28461            | 28943            | 29110            | 29185            | 29666            | 29598            | 29688            | 30110            | 30110            | 30204            | 30640            | 30642            | 31610            | 31606            | 31609            | 32608            | 32614            | 16579            | 16581            | 16593            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.21             | 2.21             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.24             | 2.24             | 2.24             | 2.26             | 2.26             | 1.04             | 1.04             | 1.04             |
|                  | 50°F<br>10.0°C          | TC                                   | 29856            | 30234            | 30543            | 30558            | 30950            | 31240            | 31238            | 31733            | 31732            | 31731            | 32242            | 32243            | 33159            | 33156            | 33154            | 34108            | 34101            | 17352            | 17355            | 17352            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.27             | 0.27             | 0.31             |
|                  |                         | PI                                   | 2.22             | 2.26             | 2.30             | 2.30             | 2.33             | 2.35             | 2.35             | 2.41             | 2.41             | 2.41             | 2.45             | 2.45             | 2.57             | 2.57             | 2.57             | 2.67             | 2.67             | 1.19             | 1.19             | 1.19             |
|                  | 59°F<br>15.0°C          | TC                                   | 29475            | 29885            | 30144            | 30162            | 30592            | 30819            | 30830            | 31300            | 31299            | 31311            | 31803            | 31803            | 32697            | 32694            | 32692            | 33632            | 33625            | 17205            | 17207            | 17204            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 2.14             | 2.18             | 2.21             | 2.21             | 2.25             | 2.27             | 2.27             | 2.32             | 2.32             | 2.33             | 2.37             | 2.37             | 2.49             | 2.49             | 2.49             | 2.58             | 2.58             | 1.20             | 1.20             | 1.20             |
|                  | 68°F<br>20.0°C          | TC                                   | 29097            | 29532            | 29745            | 29770            | 30232            | 30397            | 30417            | 30867            | 30865            | 30888            | 31364            | 31363            | 32237            | 32233            | 32233            | 33161            | 33154            | 17062            | 17061            | 17059            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.68             | 0.47             | 0.55             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.06             | 2.11             | 2.13             | 2.13             | 2.17             | 2.19             | 2.19             | 2.24             | 2.24             | 2.24             | 2.29             | 2.29             | 2.40             | 2.40             | 2.40             | 2.50             | 2.50             | 1.21             | 1.21             | 1.21             |
|                  | 77°F<br>25.0°C          | TC                                   | 28949            | 29744            | 29704            | 29799            | 30427            | 29901            | 30378            | 30461            | 30500            | 30994            | 31029            | 31119            | 32127            | 32135            | 32246            | 33285            | 33315            | 16956            | 16961            | 16984            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.28             | 2.28             | 1.10             | 1.10             | 1.10             |
|                  | 82°F<br>27.8°C          | TC                                   | 28165            | 29082            | 28892            | 28984            | 29631            | 29013            | 29600            | 29593            | 29636            | 30202            | 30128            | 30245            | 31298            | 31303            | 31433            | 32444            | 32465            | 15928            | 15932            | 15948            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.84             | 0.91             | 0.71             | 0.83             | 0.60             | 0.67             | 0.78             | 0.50             | 0.61             | 0.30             | 0.31             | 0.36             |
|                  |                         | PI                                   | 2.27             | 2.27             | 2.27             | 2.27             | 2.28             | 2.27             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 1.10             | 1.10             |
|                  | 86°F<br>30.0°C          | TC                                   | 27416            | 28448            | 28086            | 28174            | 28852            | 28208            | 28844            | 28742            | 28841            | 29409            | 29226            | 29413            | 30456            | 30462            | 30645            | 31574            | 31591            | 14885            | 14888            | 14899            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.78             | 0.86             | 0.92             | 0.72             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 2.25             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.29             | 2.29             | 2.29             | 2.30             | 2.30             | 1.09             | 1.09             | 1.09             |
|                  | 95°F<br>35.0°C          | TC                                   | 26596            | 27705            | 27206            | 27295            | 28015            | 27358            | 28034            | 27876            | 27999            | 28556            | 28329            | 28614            | 29598            | 29628            | 29887            | 30692            | 30723            | 13842            | 13845            | 13860            |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.79             | 0.87             | 0.92             | 0.73</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 20: COOLING PERFORMANCE 30K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2029             | -13°F<br>-25.0°C        | TC                                 | 21272            | 22021            | 21908            | 21984            | 22508            | 22004            | 22464            | 22480            | 22508            | 22977            | 22944            | 23017            | 23899            | 23893            | 23973            | 24868            | 24872            | 12542            | 12544            | 12554            |
|                  |                         | S/T                                | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             | 0.61             | 0.30             | 0.30             | 0.36             |
|                  |                         | PI                                 | 2.16             | 2.19             | 2.19             | 2.19             | 2.21             | 2.19             | 2.21             | 2.21             | 2.21             | 2.23             | 2.23             | 2.23             | 2.26             | 2.26             | 2.26             | 2.30             | 2.30             | 1.20             | 1.20             | 1.20             |
|                  | -4°F<br>-20.0°C         | TC                                 | 17235            | 17947            | 17738            | 17799            | 18276            | 17809            | 18211            | 18153            | 18239            | 18640            | 18506            | 18646            | 19295            | 19290            | 19438            | 20084            | 20084            | 10036            | 10038            | 10043            |
|                  |                         | S/T                                | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.63             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                 | 1.97             | 1.99             | 1.99             | 1.99             | 2.01             | 1.99             | 2.00             | 2.00             | 2.01             | 2.02             | 2.02             | 2.02             | 2.05             | 2.05             | 2.05             | 2.07             | 2.07             | 1.07             | 1.07             | 1.07             |
|                  | 0°F<br>-17.8°C          | TC                                 | 12016            | 12645            | 12209            | 12304            | 12895            | 12281            | 12651            | 12540            | 12586            | 12929            | 12586            | 12919            | 13172            | 13204            | 13525            | 13735            | 13744            | 6710             | 6709             | 6706             |
|                  |                         | S/T                                | 1.00             | 1.00             | 0.90             | 0.99             | 1.00             | 0.90             | 0.99             | 0.82             | 0.91             | 0.98             | 0.81             | 0.91             | 0.68             | 0.76             | 0.83             | 0.55             | 0.69             | 0.33             | 0.34             | 0.42             |
|                  |                         | PI                                 | 1.73             | 1.75             | 1.74             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.77             | 1.78             | 1.78             | 0.91             | 0.91             |
|                  | 5°F<br>-15.0°C          | TC                                 | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                 | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 14°F<br>-10.0°C         | TC                                 | 28400            | 28774            | 28946            | 28995            | 29394            | 29354            | 29329            | 29778            | 29758            | 29732            | 30220            | 30186            | 31021            | 31014            | 30968            | 31870            | 31833            | 16451            | 16445            | 16410            |
|                  |                         | S/T                                | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.56             | 0.61             | 0.71             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 2.34             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 1.10             | 1.10             | #VALUE!          |
|                  | 17°F<br>-8.3°C          | TC                                 | 30585            | 30988            | 31172            | 31225            | 31655            | 31612            | 31585            | 32069            | 32047            | 32019            | 32544            | 32508            | 33407            | 33400            | 33350            | 34322            | 34282            | 17717            | 17710            | #VALUE!          |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.76             | 0.87             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.57             | 0.62             | 0.71             | 0.48             | 0.57             | 0.28             | #VALUE!          | #VALUE!          |
|                  |                         | PI                                 | 2.42             | 2.42             | 2.42             | 2.42             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.42             | 2.42             | 2.42             | 1.14             | (9.86)           | 4973.94          |
|                  | 23°F<br>-5.0°C          | TC                                 | 31663            | 32079            | 32267            | 32318            | 32760            | 32639            | 32779            | 33103            | 33078            | 33227            | 33585            | 33553            | 34459            | 34452            | 34442            | 35436            | 35443            | 18307            | 18303            | 23708            |
|                  |                         | S/T                                | 0.91             | 0.96             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.49             | 0.58             | 0.28             | (1.71)           | 5801.94          |
|                  |                         | PI                                 | 2.44             | 2.45             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 1.16             | 1.16             | 5986.94          |
|                  | 35°F<br>1.7°C           | TC                                 | 32710            | 33262            | 33395            | 33478            | 34008            | 33758            | 34006            | 34263            | 34286            | 34549            | 34823            | 34851            | 35811            | 35806            | 35839            | 36863            | 36865            | 19049            | 19054            | 25276            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 7.29             | 6626.59          |
|                  |                         | PI                                 | 2.47             | 2.47             | 2.47             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             | 2.49             | 2.49             | 2.49             | 2.52             | 2.52             | 2.52             | 2.55             | 2.55             | 1.20             | 9.70             | 6764.20          |
|                  | 41°F<br>5.0°C           | TC                                 | 32571            | 33058            | 33291            | 33356            | 33873            | 33758            | 33895            | 34318            | 34295            | 34440            | 34902            | 34862            | 35972            | 35963            | 35911            | 37109            | 37065            | 19143            | 19148            | 25922            |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.83             | 0.88             | 0.93             | 0.76             | 0.88             | 0.70             | 0.76             | 0.87             | 0.66             | 0.76             | 0.57             | 0.62             | 0.72             | 0.48             | 0.58             | 0.28             | 17.79            | 6954.84          |
|                  |                         | PI                                 | 2.46             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.46             | 1.16             | 21.66            | 6278.67          |
|                  | 47°F<br>8.3°C           | TC                                 | 32588            | 33162            | 33310            | 33400            | 33958            | 33720            | 33958            | 34264            | 34285            | 34537            | 34861            | 34888            | 35932            | 35928            | 35947            | 37056            | 37066            | 19124            | 19151            | 24744            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.93             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.49             | 0.58             | 0.28             | 25.29            | 5504.00          |
|                  |                         | PI                                 | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.44             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 1.16             | 30.66            | 5214.30          |
|                  | 50°F<br>10.0°C          | TC                                 | 33488            | 34104            | 34246            | 34337            | 34919            | 34621            | 34916            | 35176            | 35206            | 35519            | 35796            | 35830            | 36892            | 36886            | 36929            | 38060            | 38065            | 19658            | 19695            | 24595            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.59             | 0.29             | 38.79            | 4632.42          |
|                  |                         | PI                                 | 2.54             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.57             | 2.59             | 2.59             | 2.59             | 2.62             | 2.62             | 1.22             | 42.22            | 4705.89          |
|                  | 59°F<br>15.0°C          | TC                                 | 35045            | 35594            | 35793            | 35843            | 36431            | 36530            | 36576            | 37082            | 37081            | 37132            | 37673            | 37673            | 38697            | 38693            | 38694            | 39787            | 39784            | 20560            | 20602            | 25618            |
|                  |                         | S/T                                | 0.88             | 0.94             | 0.80             | 0.86             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 47.78            | 5853.33          |
|                  |                         | PI                                 | 2.58             | 2.64             | 2.65             | 2.66             | 2.71             | 2.72             | 2.72             | 2.78             | 2.78             | 2.78             | 2.83             | 2.83             | 2.97             | 2.97             | 2.97             | 3.08             | 3.08             | 1.40             | 53.40            | 5198.46          |
|                  | 68°F<br>20.0°C          | TC                                 | 34684            | 35181            | 35348            | 35473            | 36011            | 36038            | 36099            | 36579            | 36577            | 36644            | 37162            | 37162            | 38164            | 38159            | 38159            | 39241            | 39238            | 20387            | 20441            | 25192            |
|                  |                         | S/T                                | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.56             | 0.60             | 0.69             | 0.48             | 0.56             | 0.27             | 57.78            | 4042.04          |
|                  |                         | PI                                 | 2.49             | 2.54             | 2.56             | 2.57             | 2.62             | 2.62             | 2.63             | 2.68             | 2.68             | 2.69             | 2.74             | 2.74             | 2.87             | 2.87             | 2.87             | 2.98             | 2.98             | 1.41             | 62.41            | 3027.41          |
|                  | 77°F<br>25.0°C          | TC                                 | 34275            | 34776            | 34975            | 35055            | 35591            | 35548            | 35626            | 36075            | 36074            | 36161            | 36652            | 36650            | 37632            | 37627            | 37625            | 38697            | 38694            | 20216            | 20215            | 20217            |
|                  |                         | S/T                                | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                 | 2.41             | 2.46             | 2.48             | 2.48             | 2.53             | 2.53             | 2.54             | 2.59             | 2.59             | 2.60             | 2.65             | 2.65             | 2.77             | 2.77             | 2.77             | 2.89             | 2.89             | 1.42             | 1.42             | 1.42             |
|                  | 82°F<br>27.8°C          | TC                                 | 34092            | 35222            | 34963            | 35077            | 35900            | 35044            | 35742            | 35657            | 35737            | 36481            | 36258            | 36451            | 37466            | 37516            | 37745            | 38825            | 38901            | 20109            | 20115            | 20141            |
|                  |                         | S/T                                | 0.95             | 1.00             | 0.86             | 0.92             | 0.98             | 0.85             | 0.92             | 0.78             | 0.85             | 0.91             | 0.72             | 0.85             | 0.61             | 0.68             | 0.79             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                 | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 1.29             | 1.29             | 1.29             |
|                  | 86°F<br>30.0°C          | TC                                 | 33170            | 34430            | 33987            | 34114            | 35004            | 34111            | 34836            | 34681            | 34826            | 35529            | 35211            | 35540            | 36487            | 36550            | 36897            | 37836            | 37889            | 18892            | 18896            | 18912            |
|                  |                         | S/T                                | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.80             | 0.87             | 0.93             | 0.73             | 0.87             | 0.62             | 0.69             | 0.81             | 0.52             | 0.63             | 0.31             | 0.32             | 0.38             |
|                  |                         | PI                                 | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.64             | 2.63             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.65             | 1.29             | 1.29             | 1.29             |
|                  | 95°F<br>35.0°C          | TC                                 | 32238            | 33610            | 32964            | 33104            | 34131            | 33123            | 33899            | 33717            | 33831            | 34544            | 34101            | 34567            | 35456            | 35506            | 35953            | 36747            | 36789            | 17627            | 17630            | 17639            |
|                  |                         | S/T                                | 0.98             | 1.00             | 0.87             | 0.94             | 1.00             | 0.87             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 21: COOLING PERFORMANCE 36K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F/°C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                    | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                    |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882              | -13°F<br>-25.0°C        | TC                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | S/T                                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  |                         | PI                                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
|                  | -4°F<br>-20.0°C         | TC                                 | 17546            | 17543            | 17960            | 17957            | 17954            | 18361            | 18357            | 18655            | 18652            | 18648            | 18939            | 18935            | 19490            | 19487            | 19483            | 20025            | 20019            | 9871             | 9871             | 9867             |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.78             | 0.86             | 0.67             | 0.75             | 0.63             | 0.67             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.45             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 0.69             | 0.69             | 0.69             |
|                  | 0°F<br>-17.8°C          | TC                                 | 18895            | 18892            | 19342            | 19339            | 19335            | 19773            | 19769            | 20090            | 20087            | 20083            | 20396            | 20391            | 20990            | 20986            | 20982            | 21565            | 21559            | 10630            | 10630            | 10626            |
|                  |                         | S/T                                | 0.80             | 0.89             | 0.74             | 0.78             | 0.86             | 0.68             | 0.76             | 0.63             | 0.68             | 0.75             | 0.59             | 0.67             | 0.52             | 0.57             | 0.63             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 0.72             | 0.72             | 0.72             |
|                  | 5°F<br>-15.0°C          | TC                                 | 19509            | 19505            | 19966            | 19963            | 19958            | 20408            | 20403            | 20731            | 20728            | 20723            | 21044            | 21038            | 21646            | 21643            | 21638            | 22231            | 22224            | 10959            | 10958            | 10954            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 0.73             | 0.73             | 0.73             |
|                  | 14°F<br>-10.0°C         | TC                                 | 20125            | 20278            | 20635            | 20633            | 20781            | 21128            | 21127            | 21494            | 21494            | 21493            | 21850            | 21850            | 22553            | 22549            | 22547            | 23232            | 23228            | 11451            | 11451            | 11451            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 0.75             | 0.75             |
|                  | 17°F<br>-8.3°C          | TC                                 | 20070            | 20119            | 20605            | 20602            | 20649            | 21122            | 21118            | 21504            | 21502            | 21497            | 21874            | 21869            | 22600            | 22596            | 22591            | 23303            | 23296            | 11478            | 11477            | 11474            |
|                  |                         | S/T                                | 0.81             | 0.90             | 0.74             | 0.79             | 0.87             | 0.68             | 0.76             | 0.63             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 23°F<br>-5.0°C          | TC                                 | 20067            | 20212            | 20602            | 20599            | 20739            | 21119            | 21116            | 21503            | 21502            | 21501            | 21877            | 21879            | 22628            | 22624            | 22623            | 23351            | 23348            | 11499            | 11498            | 11499            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.77             | 0.64             | 0.69             | 0.76             | 0.60             | 0.68             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 0.73             | 0.73             | 0.73             |
|                  | 35°F<br>1.7°C           | TC                                 | 20570            | 20760            | 21124            | 21129            | 21314            | 21667            | 21666            | 22071            | 22070            | 22070            | 22463            | 22463            | 23240            | 23236            | 23234            | 23990            | 23986            | 11818            | 11818            | 11818            |
|                  |                         | S/T                                | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.58             | 0.64             | 0.46             | 0.54             | 0.26             | 0.27             | 0.30             |
|                  |                         | PI                                 | 1.70             | 1.70             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.73             | 1.73             | 1.74             | 1.74             | 0.77             | 0.77             | 0.77             |
|                  | 41°F<br>5.0°C           | TC                                 | 21714            | 21728            | 22284            | 22283            | 22296            | 22837            | 22835            | 23241            | 23238            | 23237            | 23632            | 23628            | 24387            | 24384            | 24380            | 25118            | 25115            | 12384            | 12383            | 12383            |
|                  |                         | S/T                                | 0.78             | 0.86             | 0.72             | 0.76             | 0.83             | 0.66             | 0.74             | 0.62             | 0.66             | 0.73             | 0.58             | 0.65             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.72             | 1.72             | 1.78             | 1.78             | 1.78             | 1.82             | 1.82             | 1.86             | 1.86             | 1.86             | 1.89             | 1.89             | 1.99             | 1.99             | 1.99             | 2.06             | 2.06             | 0.89             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                 | 21428            | 21452            | 21984            | 21982            | 22006            | 22529            | 22527            | 22921            | 22919            | 22917            | 23306            | 23302            | 24042            | 24039            | 24034            | 24762            | 24759            | 12278            | 12277            | 12277            |
|                  |                         | S/T                                | 0.79             | 0.87             | 0.72             | 0.77             | 0.84             | 0.67             | 0.74             | 0.62             | 0.66             | 0.73             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.52             | 0.25             | 0.26             | 0.29             |
|                  |                         | PI                                 | 1.65             | 1.65             | 1.71             | 1.71             | 1.71             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.83             | 1.83             | 1.92             | 1.92             | 1.92             | 1.99             | 1.99             | 0.89             | 0.89             | 0.89             |
|                  | 50°F<br>10.0°C          | TC                                 | 21139            | 21174            | 21680            | 21679            | 21714            | 22217            | 22215            | 22600            | 22598            | 22596            | 22980            | 22976            | 23696            | 23693            | 23689            | 24406            | 24402            | 12171            | 12171            | 12170            |
|                  |                         | S/T                                | 0.80             | 0.88             | 0.73             | 0.77             | 0.85             | 0.67             | 0.75             | 0.63             | 0.67             | 0.74             | 0.59             | 0.66             | 0.52             | 0.56             | 0.62             | 0.45             | 0.53             | 0.25             | 0.26             | 0.30             |
|                  |                         | PI                                 | 1.58             | 1.59             | 1.64             | 1.64             | 1.64             | 1.68             | 1.68             | 1.73             | 1.73             | 1.73             | 1.76             | 1.76             | 1.85             | 1.85             | 1.85             | 1.93             | 1.93             | 0.90             | 0.90             | 0.90             |
|                  | 59°F<br>15.0°C          | TC                                 | 20785            | 21181            | 21328            | 21414            | 21801            | 21854            | 21897            | 22311            | 22313            | 22358            | 22759            | 22764            | 23646            | 23642            | 23649            | 24500            | 24507            | 12076            | 12075            | 12086            |
|                  |                         | S/T                                | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                 | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.82             | 0.82             | 0.82             |
|                  | 68°F<br>20.0°C          | TC                                 | 20210            | 20645            | 20792            | 20851            | 21233            | 21197            | 21268            | 21684            | 21681            | 21747            | 22122            | 22123            | 23055            | 23051            | 23055            | 23893            | 23898            | 11340            | 11340            | 11348            |
|                  |                         | S/T                                | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                 | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 77°F<br>25.0°C          | TC                                 | 19664            | 20138            | 20240            | 20298            | 20672            | 20549            | 20685            | 21057            | 21055            | 21171            | 21482            | 21482            | 22459            | 22454            | 22456            | 23270            | 23275            | 10594            | 10594            | 10602            |
|                  |                         | S/T                                | 0.91             | 0.97             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.87             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 0.82             | 0.82             | 0.82             |
|                  | 82°F<br>27.8°C          | TC                                 | 19067            | 19580            | 19635            | 19694            | 20060            | 19899            | 20125            | 20424            | 20432            | 20609            | 20839            | 20852            | 21871            | 21865            | 21878            | 22658            | 22668            | 9851             | 9851             | 9862             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 0.81             | 0.81             | 0.81             |
|                  | 86°F<br>30.0°C          | TC                                 | 19030            | 19568            | 19598            | 19659            | 20040            | 19837            | 20112            | 20374            | 20382            | 20596            | 20791            | 20812            | 21849            | 21843            | 21861            | 22651            | 22663            | 9809             | 9810             | 9823             |
|                  |                         | S/T                                | 0.92             | 0.98             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.79             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                 | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 0.82             | 0.82             | 0.82             |
|                  | 95°F<br>35.0°C          | TC                                 | 19367            | 19936            | 19949            | 20013            | 20426            | 20167            | 20493            | 20708            | 20719            | 20983            | 21145            | 21173            | 22215            | 22210            | 22233            | 23066            | 23076            | 10248            | 10250            | 10263            |
|                  |                         | S/T                                | 0.93             | 0.99             | 0.84             | 0.90             | 0.95             | 0.79             | 0.90             | 0.73             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                 | 1.80             | 1.81             | 1.81             | 1.81             | 1.82             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 0.87             | 0.87             | 0.87             |
|                  | 104°F<br>40.0°C         | TC                                 | 19699            |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 21: COOLING PERFORMANCE 36K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1147             | -13°F<br>-25.0°C        | TC                                   | 8549             | 8948             | 8811             | 8842             | 9091             | 8857             | 9090             | 9057             | 9098             | 9307             | 9245             | 9319             | 9728             | 9725             | 9794             | 10159            | 10158            | 4797             | 4797             | 4798             |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 1.32             | 1.33             | 1.33             | 1.33             | 1.34             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.36             | 1.37             | 1.37             | 0.68             | 0.68             | 0.68             |
|                  | -4°F<br>-20.0°C         | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 0°F<br>-17.8°C          | TC                                   | 20544            | 20752            | 21006            | 21003            | 21211            | 21467            | 21460            | 21795            | 21791            | 21783            | 22121            | 22113            | 22736            | 22732            | 22722            | 23351            | 23341            | 11694            | 11693            | 11686            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.76             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.78             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.78             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 0.80             | 0.80             | 0.80             |
|                  | 5°F<br>-15.0°C          | TC                                   | 22124            | 22348            | 22622            | 22618            | 22842            | 23118            | 23111            | 23471            | 23467            | 23459            | 23823            | 23813            | 24485            | 24481            | 24470            | 25148            | 25136            | 12593            | 12593            | 12585            |
|                  |                         | S/T                                  | 0.84             | 0.92             | 0.77             | 0.82             | 0.89             | 0.70             | 0.79             | 0.65             | 0.70             | 0.79             | 0.61             | 0.70             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.85             | 1.84             | 1.84             | 1.84             | 1.83             | 1.83             | 1.83             | 1.82             | 1.83             | 1.83             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 0.83             | 0.83             | 0.83             |
|                  | 14°F<br>-10.0°C         | TC                                   | 22846            | 23127            | 23355            | 23351            | 23631            | 23862            | 23853            | 24222            | 24217            | 24206            | 24581            | 24568            | 25250            | 25246            | 25237            | 25926            | 25925            | 12986            | 12985            | 12986            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.80             | 0.62             | 0.71             | 0.54             | 0.58             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 0.85             | 0.85             | 0.85             |
|                  | 17°F<br>-8.3°C          | TC                                   | 23602            | 23948            | 24158            | 24174            | 24522            | 24696            | 24710            | 25106            | 25105            | 25121            | 25517            | 25519            | 26299            | 26296            | 26299            | 27080            | 27078            | 13564            | 13563            | 13564            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.72             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.92             | 1.92             | 0.87             | 0.87             | 0.87             |
|                  | 23°F<br>-5.0°C          | TC                                   | 23494            | 23825            | 24094            | 24090            | 24421            | 24692            | 24684            | 25121            | 25116            | 25108            | 25549            | 25538            | 26364            | 26359            | 26348            | 27179            | 27167            | 13601            | 13600            | 13591            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 35°F<br>1.7°C           | TC                                   | 23525            | 23874            | 24107            | 24120            | 24476            | 24680            | 24688            | 25111            | 25111            | 25126            | 25548            | 25552            | 26384            | 26381            | 26386            | 27217            | 27216            | 13620            | 13619            | 13622            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.85             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 0.85             | 0.85             | 0.85             |
|                  | 41°F<br>5.0°C           | TC                                   | 24132            | 24530            | 24741            | 24762            | 25162            | 25325            | 25345            | 25778            | 25777            | 25799            | 26231            | 26234            | 27098            | 27095            | 27098            | 27963            | 27961            | 13998            | 13998            | 14000            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 0.89             | 0.89             |
|                  | 47°F<br>8.3°C           | TC                                   | 25450            | 25613            | 26081            | 26079            | 26242            | 26713            | 26711            | 27156            | 27155            | 27153            | 27601            | 27599            | 28429            | 28425            | 28422            | 29257            | 29253            | 14655            | 14654            | 14654            |
|                  |                         | S/T                                  | 0.81             | 0.91             | 0.74             | 0.79             | 0.88             | 0.68             | 0.77             | 0.64             | 0.68             | 0.76             | 0.60             | 0.68             | 0.53             | 0.57             | 0.64             | 0.46             | 0.54             | 0.26             | 0.26             | 0.30             |
|                  |                         | PI                                   | 1.95             | 1.96             | 2.01             | 2.01             | 2.02             | 2.06             | 2.06             | 2.11             | 2.11             | 2.11             | 2.15             | 2.15             | 2.25             | 2.25             | 2.25             | 2.33             | 2.33             | 1.02             | 1.02             | 1.02             |
|                  | 50°F<br>10.0°C          | TC                                   | 25086            | 25321            | 25729            | 25730            | 25937            | 26351            | 26349            | 26783            | 26782            | 26780            | 27222            | 27220            | 28029            | 28026            | 28022            | 28845            | 28841            | 14530            | 14529            | 14528            |
|                  |                         | S/T                                  | 0.82             | 0.91             | 0.75             | 0.80             | 0.88             | 0.69             | 0.78             | 0.64             | 0.69             | 0.77             | 0.60             | 0.69             | 0.53             | 0.57             | 0.64             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.86             | 1.89             | 1.93             | 1.93             | 1.95             | 1.98             | 1.98             | 2.03             | 2.03             | 2.03             | 2.07             | 2.07             | 2.17             | 2.17             | 2.17             | 2.26             | 2.26             | 1.03             | 1.03             | 1.03             |
|                  | 59°F<br>15.0°C          | TC                                   | 24786            | 25026            | 25374            | 25384            | 25630            | 25987            | 25985            | 26410            | 26408            | 26407            | 26844            | 26842            | 27631            | 27627            | 27624            | 28436            | 28431            | 14405            | 14405            | 14404            |
|                  |                         | S/T                                  | 0.83             | 0.92             | 0.76             | 0.81             | 0.89             | 0.70             | 0.78             | 0.65             | 0.70             | 0.78             | 0.61             | 0.69             | 0.53             | 0.57             | 0.65             | 0.46             | 0.53             | 0.26             | 0.27             | 0.31             |
|                  |                         | PI                                   | 1.79             | 1.82             | 1.86             | 1.86             | 1.88             | 1.92             | 1.92             | 1.96             | 1.96             | 1.96             | 2.00             | 2.00             | 2.10             | 2.10             | 2.10             | 2.18             | 2.18             | 1.04             | 1.04             | 1.04             |
|                  | 68°F<br>20.0°C          | TC                                   | 24552            | 25075            | 25197            | 25275            | 25752            | 25544            | 25764            | 26048            | 26069            | 26290            | 26572            | 26599            | 27558            | 27554            | 27590            | 28548            | 28562            | 14302            | 14306            | 14325            |
|                  |                         | S/T                                  | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.48             | 0.58             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                   | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 1.99             | 1.99             | 0.95             | 0.95             | 0.95             |
|                  | 77°F<br>25.0°C          | TC                                   | 23877            | 24460            | 24521            | 24597            | 25085            | 24781            | 25105            | 25313            | 25331            | 25634            | 25811            | 25850            | 26858            | 26852            | 26897            | 27834            | 27843            | 13434            | 13437            | 13451            |
|                  |                         | S/T                                  | 0.92             | 0.99             | 0.84             | 0.90             | 0.94             | 0.79             | 0.90             | 0.72             | 0.79             | 0.89             | 0.68             | 0.79             | 0.58             | 0.64             | 0.74             | 0.49             | 0.59             | 0.29             | 0.29             | 0.35             |
|                  |                         | PI                                   | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 1.98             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 0.94             | 0.94             | 0.94             |
|                  | 82°F<br>27.8°C          | TC                                   | 23232            | 23938            | 23854            | 23927            | 24422            | 24032            | 24467            | 24581            | 24602            | 24978            | 25051            | 25109            | 26148            | 26142            | 26201            | 27097            | 27104            | 12553            | 12556            | 12566            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.49             | 0.60             | 0.29             | 0.30             | 0.35             |
|                  |                         | PI                                   | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 0.94             | 0.94             | 0.94             |
|                  | 86°F<br>30.0°C          | TC                                   | 22529            | 23318            | 23125            | 23198            | 23697            | 23265            | 23780            | 23832            | 23861            | 24272            | 24283            | 24362            | 25439            | 25433            | 25511            | 26366            | 26377            | 11674            | 11677            | 11690            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.70             | 0.82             | 0.60             | 0.66             | 0.77             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.96             | 1.96             | 1.96             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 0.93             | 0.93             | 0.93             |
|                  | 95°F<br>35.0°C          | TC                                   | 22494            | 23335            | 23082            | 23157            | 23678            | 23200            | 23768            | 23774            | 23809            | 24259            | 24226            | 24323            | 25409            | 25412            | 25498            | 26355            | 26376            | 11626            | 11629            | 11644            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             | 0.61             |                  |                  |                  |

Table 21: COOLING PERFORMANCE 36K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C        | TC                                   | 14604            | 15091            | 15050            | 15102            | 15450            | 15154            | 15450            | 15511            | 15524            | 15811            | 15851            | 15883            | 16558            | 16554            | 16586            | 17238            | 17241            | 8473             | 8475             | 8481             |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.84             | 0.91             | 0.96             | 0.82             | 0.91             | 0.75             | 0.82             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 1.72             | 1.73             | 1.73             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.79             | 1.79             | 1.79             | 1.81             | 1.81             | 0.92             | 0.92             | 0.92             |
|                  | -4°F<br>-20.0°C         | TC                                   | 10133            | 10669            | 10389            | 10441            | 10866            | 10451            | 10739            | 10679            | 10719            | 10983            | 10789            | 10996            | 11323            | 11331            | 11527            | 11821            | 11823            | 5678             | 5678             | 5677             |
|                  |                         | S/T                                  | 1.00             | 1.00             | 0.88             | 0.96             | 1.00             | 0.88             | 0.96             | 0.81             | 0.88             | 0.95             | 0.77             | 0.88             | 0.65             | 0.72             | 0.82             | 0.53             | 0.66             | 0.32             | 0.33             | 0.40             |
|                  |                         | PI                                   | 1.51             | 1.52             | 1.51             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.52             | 1.53             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 0.78             | 0.78             | 0.78             |
|                  | 0°F<br>-17.8°C          | TC                                   | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                                  | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                   | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 5°F<br>-15.0°C          | TC                                   | 24117            | 24463            | 24569            | 24633            | 24990            | 25102            | 25086            | 25471            | 25463            | 25446            | 25848            | 25833            | 26546            | 26541            | 26522            | 27267            | 27244            | 13869            | 13866            | 13845            |
|                  |                         | S/T                                  | 0.88             | 0.94             | 0.80             | 0.86             | 0.90             | 0.73             | 0.83             | 0.67             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.68             | 0.47             | 0.56             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.03             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.01             | 2.01             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 0.93             | 0.93             |
|                  | 14°F<br>-10.0°C         | TC                                   | 25972            | 26344            | 26458            | 26528            | 26912            | 27033            | 27016            | 27430            | 27422            | 27403            | 27837            | 27820            | 28588            | 28583            | 28562            | 29365            | 29339            | 14936            | 14932            | 14910            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.80             | 0.87             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.10             | 2.10             | 2.10             | 2.10             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 0.97             | 0.97             |
|                  | 17°F<br>-8.3°C          | TC                                   | 26907            | 27269            | 27381            | 27475            | 27849            | 27909            | 27896            | 28312            | 28302            | 28287            | 28724            | 28703            | 29487            | 29480            | 29468            | 30295            | 30301            | 15412            | 15414            | 15425            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.82             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.84             | 0.64             | 0.74             | 0.56             | 0.60             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 0.99             | 0.99             |
|                  | 23°F<br>-5.0°C          | TC                                   | 27806            | 28241            | 28394            | 28462            | 28900            | 28863            | 28936            | 29327            | 29326            | 29403            | 29806            | 29807            | 30681            | 30676            | 30678            | 31581            | 31584            | 16066            | 16068            | 16076            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.14             | 2.14             | 2.14             | 2.14             | 2.15             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.18             | 2.18             | 2.18             | 2.20             | 2.20             | 1.02             | 1.02             | 1.02             |
|                  | 35°F<br>1.7°C           | TC                                   | 27665            | 28085            | 28227            | 28341            | 28774            | 28860            | 28844            | 29351            | 29343            | 29324            | 29853            | 29834            | 30778            | 30771            | 30747            | 31732            | 31704            | 16128            | 16125            | 16100            |
|                  |                         | S/T                                  | 0.89             | 0.94             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.12             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.13             | 2.13             | 0.99             | 0.99             |
|                  | 41°F<br>5.0°C           | TC                                   | 27760            | 28207            | 28366            | 28449            | 28911            | 28898            | 28967            | 29351            | 29357            | 29436            | 29831            | 29840            | 30806            | 30801            | 30807            | 31798            | 31807            | 16161            | 16164            | 16179            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.74             | 0.85             | 0.69             | 0.75             | 0.84             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.56             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 0.99             | 0.99             |
|                  | 47°F<br>8.3°C           | TC                                   | 28461            | 28943            | 29110            | 29185            | 29666            | 29598            | 29688            | 30110            | 30110            | 30204            | 30640            | 30642            | 31610            | 31606            | 31609            | 32608            | 32614            | 16579            | 16581            | 16593            |
|                  |                         | S/T                                  | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                   | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.21             | 2.21             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.24             | 2.24             | 2.24             | 2.26             | 2.26             | 1.04             | 1.04             | 1.04             |
|                  | 50°F<br>10.0°C          | TC                                   | 29856            | 30234            | 30543            | 30558            | 30950            | 31240            | 31238            | 31733            | 31732            | 31731            | 32242            | 32243            | 33159            | 33156            | 33154            | 34108            | 34101            | 17352            | 17355            | 17352            |
|                  |                         | S/T                                  | 0.85             | 0.92             | 0.77             | 0.83             | 0.89             | 0.71             | 0.80             | 0.66             | 0.71             | 0.79             | 0.62             | 0.71             | 0.54             | 0.58             | 0.66             | 0.46             | 0.54             | 0.27             | 0.27             | 0.31             |
|                  |                         | PI                                   | 2.22             | 2.26             | 2.30             | 2.30             | 2.33             | 2.35             | 2.35             | 2.41             | 2.41             | 2.41             | 2.45             | 2.45             | 2.57             | 2.57             | 2.57             | 2.67             | 2.67             | 1.19             | 1.19             | 1.19             |
|                  | 59°F<br>15.0°C          | TC                                   | 29475            | 29885            | 30144            | 30162            | 30592            | 30819            | 30830            | 31300            | 31299            | 31311            | 31803            | 31803            | 32697            | 32694            | 32692            | 33632            | 33625            | 17205            | 17207            | 17204            |
|                  |                         | S/T                                  | 0.86             | 0.93             | 0.78             | 0.84             | 0.90             | 0.72             | 0.81             | 0.66             | 0.72             | 0.80             | 0.62             | 0.71             | 0.54             | 0.59             | 0.67             | 0.47             | 0.55             | 0.27             | 0.27             | 0.32             |
|                  |                         | PI                                   | 2.14             | 2.18             | 2.21             | 2.21             | 2.25             | 2.27             | 2.27             | 2.32             | 2.32             | 2.33             | 2.37             | 2.37             | 2.49             | 2.49             | 2.49             | 2.58             | 2.58             | 1.20             | 1.20             | 1.20             |
|                  | 68°F<br>20.0°C          | TC                                   | 29097            | 29532            | 29745            | 29770            | 30232            | 30397            | 30417            | 30867            | 30865            | 30888            | 31364            | 31363            | 32237            | 32233            | 32233            | 33161            | 33154            | 17062            | 17061            | 17059            |
|                  |                         | S/T                                  | 0.87             | 0.93             | 0.79             | 0.85             | 0.90             | 0.72             | 0.82             | 0.67             | 0.72             | 0.81             | 0.63             | 0.72             | 0.55             | 0.59             | 0.68             | 0.47             | 0.55             | 0.27             | 0.28             | 0.32             |
|                  |                         | PI                                   | 2.06             | 2.11             | 2.13             | 2.13             | 2.17             | 2.19             | 2.19             | 2.24             | 2.24             | 2.24             | 2.29             | 2.29             | 2.40             | 2.40             | 2.40             | 2.50             | 2.50             | 1.21             | 1.21             | 1.21             |
|                  | 77°F<br>25.0°C          | TC                                   | 28949            | 29744            | 29704            | 29799            | 30427            | 29901            | 30378            | 30461            | 30500            | 30994            | 31029            | 31119            | 32127            | 32135            | 32246            | 33285            | 33315            | 16956            | 16961            | 16984            |
|                  |                         | S/T                                  | 0.93             | 1.00             | 0.84             | 0.91             | 0.96             | 0.81             | 0.91             | 0.74             | 0.81             | 0.90             | 0.69             | 0.81             | 0.59             | 0.65             | 0.76             | 0.50             | 0.60             | 0.29             | 0.30             | 0.36             |
|                  |                         | PI                                   | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 2.28             | 2.28             | 1.10             | 1.10             | 1.10             |
|                  | 82°F<br>27.8°C          | TC                                   | 28165            | 29082            | 28892            | 28984            | 29631            | 29013            | 29600            | 29593            | 29636            | 30202            | 30128            | 30245            | 31298            | 31303            | 31433            | 32444            | 32465            | 15928            | 15932            | 15948            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.84             | 0.91             | 0.71             | 0.83             | 0.60             | 0.67             | 0.78             | 0.50             | 0.61             | 0.30             | 0.31             | 0.36             |
|                  |                         | PI                                   | 2.27             | 2.27             | 2.27             | 2.27             | 2.28             | 2.27             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             | 1.10             | 1.10             |
|                  | 86°F<br>30.0°C          | TC                                   | 27416            | 28448            | 28086            | 28174            | 28852            | 28208            | 28844            | 28742            | 28841            | 29409            | 29226            | 29413            | 30456            | 30462            | 30645            | 31574            | 31591            | 14885            | 14888            | 14899            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.78             | 0.86             | 0.92             | 0.72             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                   | 2.25             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.29             | 2.29             | 2.29             | 2.30             | 2.30             | 1.09             | 1.09             | 1.09             |
|                  | 95°F<br>35.0°C          | TC                                   | 26596            | 27705            | 27206            | 27295            | 28015            | 27358            | 28034            | 27876            | 27999            | 28556            | 28329            | 28614            | 29598            | 29628            | 29887            | 30692            | 30723            | 13842            | 13845            | 13860            |
|                  |                         | S/T                                  | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.79             | 0.87             | 0.92             | 0.730            |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 21: COOLING PERFORMANCE 36K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB °F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|-----------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                   | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                   |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2029             | -13°F<br>-25.0°C        | TC                                | 21272            | 22021            | 21908            | 21984            | 22508            | 22004            | 22464            | 22480            | 22508            | 22977            | 22944            | 23017            | 23899            | 23893            | 23973            | 24868            | 24872            | 12542            | 12544            | 12554            |
|                  |                         | S/T                               | 0.94             | 1.00             | 0.85             | 0.92             | 0.97             | 0.83             | 0.92             | 0.76             | 0.83             | 0.91             | 0.70             | 0.83             | 0.60             | 0.66             | 0.77             | 0.50             | 0.61             | 0.30             | 0.30             | 0.36             |
|                  |                         | PI                                | 2.16             | 2.19             | 2.19             | 2.19             | 2.21             | 2.19             | 2.21             | 2.21             | 2.21             | 2.23             | 2.23             | 2.23             | 2.26             | 2.26             | 2.26             | 2.30             | 2.30             | 1.20             | 1.20             | 1.20             |
|                  | -4°F<br>-20.0°C         | TC                                | 17235            | 17947            | 17738            | 17799            | 18276            | 17809            | 18211            | 18153            | 18239            | 18640            | 18506            | 18646            | 19295            | 19290            | 19438            | 20084            | 20084            | 10036            | 10038            | 10043            |
|                  |                         | S/T                               | 0.96             | 1.00             | 0.86             | 0.93             | 0.99             | 0.86             | 0.93             | 0.79             | 0.86             | 0.92             | 0.73             | 0.86             | 0.62             | 0.68             | 0.80             | 0.51             | 0.63             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                | 1.97             | 1.99             | 1.99             | 1.99             | 2.01             | 1.99             | 2.00             | 2.00             | 2.01             | 2.02             | 2.02             | 2.02             | 2.05             | 2.05             | 2.05             | 2.07             | 2.07             | 1.07             | 1.07             | 1.07             |
|                  | 0°F<br>-17.8°C          | TC                                | 12016            | 12645            | 12209            | 12304            | 12895            | 12281            | 12651            | 12540            | 12586            | 12929            | 12586            | 12919            | 13172            | 13204            | 13525            | 13735            | 13744            | 6710             | 6709             | 6706             |
|                  |                         | S/T                               | 1.00             | 1.00             | 0.90             | 0.99             | 1.00             | 0.90             | 0.99             | 0.82             | 0.91             | 0.98             | 0.81             | 0.91             | 0.68             | 0.76             | 0.83             | 0.55             | 0.69             | 0.33             | 0.34             | 0.42             |
|                  |                         | PI                                | 1.73             | 1.75             | 1.74             | 1.74             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.77             | 1.78             | 1.78             | 0.91             | 0.91             |
|                  | 5°F<br>-15.0°C          | TC                                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
|                  |                         | S/T                               | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  |                         | PI                                | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             | 0.00             |
|                  | 14°F<br>-10.0°C         | TC                                | 28400            | 28774            | 28946            | 28995            | 29394            | 29354            | 29329            | 29778            | 29758            | 29732            | 30220            | 30186            | 31021            | 31014            | 30968            | 31870            | 31833            | 16451            | 16445            | 16410            |
|                  |                         | S/T                               | 0.90             | 0.95             | 0.82             | 0.88             | 0.92             | 0.75             | 0.86             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.56             | 0.61             | 0.71             | 0.48             | 0.57             | 0.28             | 0.29             | 0.34             |
|                  |                         | PI                                | 2.34             | 2.34             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.34             | 2.34             | 1.10             | 1.10             | #VALUE !         |
|                  | 17°F<br>-8.3°C          | TC                                | 30585            | 30988            | 31172            | 31225            | 31655            | 31612            | 31585            | 32069            | 32047            | 32019            | 32544            | 32508            | 33407            | 33400            | 33350            | 34322            | 34282            | 17717            | 17710            | #VALUE !         |
|                  |                         | S/T                               | 0.90             | 0.96             | 0.82             | 0.88             | 0.92             | 0.76             | 0.87             | 0.70             | 0.76             | 0.86             | 0.65             | 0.76             | 0.57             | 0.62             | 0.71             | 0.48             | 0.57             | 0.28             | #VALUE !         | #VALUE !         |
|                  |                         | PI                                | 2.42             | 2.42             | 2.42             | 2.42             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 1.14             | (9.86)           |
|                  | 23°F<br>-5.0°C          | TC                                | 31663            | 32079            | 32267            | 32318            | 32760            | 32639            | 32779            | 33103            | 33078            | 33227            | 33585            | 33553            | 34459            | 34452            | 34442            | 35436            | 35443            | 18307            | 18303            | 23708            |
|                  |                         | S/T                               | 0.91             | 0.96             | 0.83             | 0.88             | 0.93             | 0.77             | 0.88             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.62             | 0.72             | 0.49             | 0.58             | 0.28             | (1.71)           | 5801.94          |
|                  |                         | PI                                | 2.44             | 2.45             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 1.16             | 1.16             | 5986.94          |
|                  | 35°F<br>1.7°C           | TC                                | 32710            | 33262            | 33395            | 33478            | 34008            | 33758            | 34006            | 34263            | 34286            | 34549            | 34823            | 34851            | 35811            | 35806            | 35839            | 36863            | 36865            | 19049            | 19054            | 25276            |
|                  |                         | S/T                               | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.77             | 0.89             | 0.71             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.58             | 0.28             | 7.29             | 6626.59          |
|                  |                         | PI                                | 2.47             | 2.47             | 2.47             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             | 2.49             | 2.49             | 2.49             | 2.52             | 2.52             | 2.52             | 2.55             | 2.55             | 1.20             | 9.70             | 6764.20          |
|                  | 41°F<br>5.0°C           | TC                                | 32571            | 33058            | 33291            | 33356            | 33873            | 33758            | 33895            | 34318            | 34295            | 34440            | 34902            | 34862            | 35972            | 35963            | 35911            | 37109            | 37065            | 19143            | 19148            | 25922            |
|                  |                         | S/T                               | 0.90             | 0.96             | 0.83             | 0.88             | 0.93             | 0.76             | 0.88             | 0.70             | 0.76             | 0.87             | 0.66             | 0.76             | 0.57             | 0.62             | 0.72             | 0.48             | 0.58             | 0.28             | 17.79            | 6954.84          |
|                  |                         | PI                                | 2.46             | 2.46             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 2.46             | 2.46             | 1.16             | 21.66            | 6278.67          |
|                  | 47°F<br>8.3°C           | TC                                | 32588            | 33162            | 33310            | 33400            | 33958            | 33720            | 33958            | 34264            | 34285            | 34537            | 34861            | 34888            | 35932            | 35928            | 35947            | 37056            | 37066            | 19124            | 19151            | 24744            |
|                  |                         | S/T                               | 0.91             | 0.97             | 0.83             | 0.89             | 0.93             | 0.77             | 0.89             | 0.71             | 0.77             | 0.88             | 0.66             | 0.77             | 0.57             | 0.63             | 0.72             | 0.49             | 0.58             | 0.28             | 25.29            | 5504.00          |
|                  |                         | PI                                | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.44             | 2.45             | 2.45             | 2.45             | 2.46             | 2.46             | 1.16             | 30.66            | 5214.30          |
|                  | 50°F<br>10.0°C          | TC                                | 33488            | 34104            | 34246            | 34337            | 34919            | 34621            | 34916            | 35176            | 35206            | 35519            | 35796            | 35830            | 36892            | 36886            | 36929            | 38060            | 38065            | 19658            | 19695            | 24595            |
|                  |                         | S/T                               | 0.91             | 0.97             | 0.83             | 0.89             | 0.94             | 0.78             | 0.89             | 0.72             | 0.78             | 0.88             | 0.67             | 0.78             | 0.58             | 0.63             | 0.73             | 0.49             | 0.59             | 0.29             | 38.79            | 4632.42          |
|                  |                         | PI                                | 2.54             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.57             | 2.59             | 2.59             | 2.59             | 2.62             | 2.62             | 1.22             | 42.22            | 4705.89          |
|                  | 59°F<br>15.0°C          | TC                                | 35045            | 35594            | 35793            | 35843            | 36431            | 36530            | 36576            | 37082            | 37081            | 37132            | 37673            | 37673            | 38697            | 38693            | 38694            | 39787            | 39784            | 20560            | 20602            | 25618            |
|                  |                         | S/T                               | 0.88             | 0.94             | 0.80             | 0.86             | 0.91             | 0.73             | 0.83             | 0.68             | 0.73             | 0.82             | 0.63             | 0.73             | 0.55             | 0.60             | 0.69             | 0.47             | 0.56             | 0.27             | 47.78            | 5853.33          |
|                  |                         | PI                                | 2.58             | 2.64             | 2.65             | 2.66             | 2.71             | 2.72             | 2.72             | 2.78             | 2.78             | 2.78             | 2.83             | 2.83             | 2.97             | 2.97             | 2.97             | 3.08             | 3.08             | 1.40             | 53.40            | 5198.46          |
|                  | 68°F<br>20.0°C          | TC                                | 34684            | 35181            | 35348            | 35473            | 36011            | 36038            | 36099            | 36579            | 36577            | 36644            | 37162            | 37162            | 38164            | 38159            | 38159            | 39241            | 39238            | 20387            | 20441            | 25192            |
|                  |                         | S/T                               | 0.89             | 0.95             | 0.81             | 0.87             | 0.91             | 0.74             | 0.84             | 0.68             | 0.74             | 0.83             | 0.64             | 0.74             | 0.56             | 0.60             | 0.69             | 0.48             | 0.56             | 0.27             | 57.78            | 4042.04          |
|                  |                         | PI                                | 2.49             | 2.54             | 2.56             | 2.57             | 2.62             | 2.62             | 2.63             | 2.68             | 2.68             | 2.69             | 2.74             | 2.74             | 2.87             | 2.87             | 2.87             | 2.98             | 2.98             | 1.41             | 62.41            | 3027.41          |
|                  | 77°F<br>25.0°C          | TC                                | 34275            | 34776            | 34975            | 35055            | 35591            | 35548            | 35626            | 36075            | 36074            | 36161            | 36652            | 36650            | 37632            | 37627            | 37625            | 38697            | 38694            | 20216            | 20215            | 20217            |
|                  |                         | S/T                               | 0.90             | 0.95             | 0.82             | 0.87             | 0.92             | 0.75             | 0.85             | 0.69             | 0.75             | 0.85             | 0.65             | 0.75             | 0.56             | 0.61             | 0.70             | 0.48             | 0.57             | 0.28             | 0.28             | 0.33             |
|                  |                         | PI                                | 2.41             | 2.46             | 2.48             | 2.48             | 2.53             | 2.53             | 2.54             | 2.59             | 2.59             | 2.60             | 2.65             | 2.65             | 2.77             | 2.77             | 2.77             | 2.89             | 2.89             | 1.42             | 1.42             | 1.42             |
|                  | 82°F<br>27.8°C          | TC                                | 34092            | 35222            | 34963            | 35077            | 35900            | 35044            | 35742            | 35657            | 35737            | 36481            | 36258            | 36451            | 37466            | 37516            | 37745            | 38825            | 38901            | 20109            | 20115            | 20141            |
|                  |                         | S/T                               | 0.95             | 1.00             | 0.86             | 0.92             | 0.98             | 0.85             | 0.92             | 0.78             | 0.85             | 0.91             | 0.72             | 0.85             | 0.61             | 0.68             | 0.79             | 0.51             | 0.62             | 0.30             | 0.31             | 0.37             |
|                  |                         | PI                                | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 1.29             | 1.29             | 1.29             |
|                  | 86°F<br>30.0°C          | TC                                | 33170            | 34430            | 33987            | 34114            | 35004            | 34111            | 34836            | 34681            | 34826            | 35529            | 35211            | 35540            | 36487            | 36550            | 36897            | 37836            | 37889            | 18892            | 18896            | 18912            |
|                  |                         | S/T                               | 0.96             | 1.00             | 0.86             | 0.93             | 1.00             | 0.86             | 0.93             | 0.80             | 0.87             | 0.93             | 0.73             | 0.87             | 0.62             | 0.69             | 0.81             | 0.52             | 0.63             | 0.31             | 0.32             | 0.38             |
|                  |                         | PI                                | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.64             | 2.63             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.65             | 1.29             | 1.29             | 1.29             |
|                  | 95°F<br>35.0°C          | TC                                | 32238            | 33610            | 32964            | 33104            | 34131            | 33123            | 33899            | 33717            | 33831            | 34544            | 34101            | 34567            | 35456            | 35506            | 35953            | 36747            | 36789            | 17627            | 17630            | 17639            |
|                  |                         | S/T                               | 0.98             | 1.00             | 0.87             | 0.94             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 22: COOLING PERFORMANCE 48K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882              | -13°F<br>-25.0°C        | TC                                   | 19870            | 19867            | 19865            | 19864            | 19861            | 20795            | 20789            | 20786            | 20786            | 20782            | 21451            | 21445            | 21440            | 21439            | 21435            | 22681            | 22675            | 22669            | 22669            | 22661            |
|                  |                         | S/T                                  | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                  |                         | PI                                   | 2.92             | 2.93             | 2.93             | 2.93             | 2.93             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                  | -4°F<br>-20.0°C         | TC                                   | 21399            | 21395            | 21393            | 21392            | 21388            | 22395            | 22389            | 22385            | 22384            | 22380            | 23101            | 23095            | 23089            | 23089            | 23083            | 24425            | 24419            | 24413            | 24412            | 24404            |
|                  |                         | S/T                                  | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                  |                         | PI                                   | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 2.99             | 2.99             | 3.00             | 3.00             | 3.00             | 2.98             | 2.98             | 2.98             | 2.98             | 2.98             | 2.97             | 2.97             | 2.97             | 2.97             | 2.97             |
|                  | 0°F<br>-17.8°C          | TC                                   | 22095            | 22090            | 22087            | 22086            | 22080            | 23113            | 23108            | 23103            | 23103            | 23096            | 23834            | 23828            | 23822            | 23822            | 23814            | 25179            | 25172            | 25168            | 25167            | 25157            |
|                  |                         | S/T                                  | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                         | PI                                   | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.02             | 3.02             | 3.02             | 3.02             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                  | 5°F<br>-15.0°C          | TC                                   | 22788            | 22788            | 22788            | 22788            | 23128            | 23926            | 23921            | 23921            | 23921            | 23923            | 24744            | 24742            | 24739            | 24738            | 24740            | 26312            | 26305            | 26299            | 26298            | 26298            |
|                  |                         | S/T                                  | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.09             | 3.09             | 3.09             | 3.09             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
|                  | 14°F<br>-10.0°C         | TC                                   | 25281            | 25278            | 25275            | 25274            | 25397            | 26609            | 26602            | 26597            | 26597            | 26592            | 27557            | 27550            | 27543            | 27542            | 27537            | 29358            | 29349            | 29342            | 29341            | 29331            |
|                  |                         | S/T                                  | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                  |                         | PI                                   | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             |
|                  | 17°F<br>-8.3°C          | TC                                   | 26129            | 26124            | 26120            | 26119            | 26495            | 27499            | 27493            | 27487            | 27486            | 27486            | 28483            | 28482            | 28478            | 28477            | 28482            | 30407            | 30398            | 30391            | 30389            | 30391            |
|                  |                         | S/T                                  | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             |
|                  | 23°F<br>-5.0°C          | TC                                   | 26598            | 26598            | 26598            | 26616            | 27102            | 28029            | 28024            | 28023            | 28024            | 28027            | 29059            | 29057            | 29053            | 29052            | 29055            | 31040            | 31031            | 31023            | 31022            | 31022            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             | 2.90             | 2.90             | 2.90             | 2.90             | 2.90             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             |
|                  | 35°F<br>1.7°C           | TC                                   | 27755            | 27753            | 27751            | 27751            | 27789            | 29193            | 29190            | 29187            | 29186            | 29184            | 30209            | 30203            | 30202            | 30201            | 30196            | 32112            | 32104            | 32099            | 32097            | 32096            |
|                  |                         | S/T                                  | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                  |                         | PI                                   | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             | 2.60             | 2.59             | 2.59             | 2.59             | 2.59             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             |
|                  | 41°F<br>5.0°C           | TC                                   | 28076            | 28072            | 28071            | 28070            | 28136            | 29518            | 29515            | 29512            | 29511            | 29509            | 30538            | 30532            | 30530            | 30529            | 30524            | 32448            | 32442            | 32435            | 32434            | 32432            |
|                  |                         | S/T                                  | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                         | PI                                   | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.94             | 2.94             | 2.93             | 2.93             | 2.93             |
|                  | 47°F<br>8.3°C           | TC                                   | 28392            | 28388            | 28387            | 28386            | 28485            | 29841            | 29837            | 29833            | 29833            | 29831            | 30867            | 30860            | 30858            | 30857            | 30852            | 32783            | 32776            | 32770            | 32769            | 32766            |
|                  |                         | S/T                                  | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                         | PI                                   | 2.51             | 2.51             | 2.51             | 2.51             | 2.52             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             |
|                  | 50°F<br>10.0°C          | TC                                   | 27783            | 27787            | 28043            | 28271            | 29320            | 29464            | 29470            | 29478            | 29480            | 29588            | 30683            | 30686            | 30699            | 30702            | 30714            | 33046            | 33033            | 33038            | 33036            | 33065            |
|                  |                         | S/T                                  | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             | 2.81             |
|                  | 59°F<br>15.0°C          | TC                                   | 27221            | 27263            | 27799            | 27962            | 29055            | 28952            | 28958            | 28964            | 28964            | 29142            | 30219            | 30212            | 30224            | 30225            | 30234            | 32648            | 32635            | 32637            | 32636            | 32660            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 2.85             | 2.85             | 2.85             | 2.86             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             |
|                  | 68°F<br>20.0°C          | TC                                   | 26679            | 26766            | 27522            | 27691            | 28823            | 28451            | 28456            | 28459            | 28460            | 28802            | 29743            | 29737            | 29748            | 29749            | 29755            | 32230            | 32216            | 32217            | 32216            | 32241            |
|                  |                         | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 2.89             | 2.89             | 2.90             | 2.90             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             | 2.97             | 2.97             | 2.97             | 2.97             | 2.97             |
|                  | 77°F<br>25.0°C          | TC                                   | 26098            | 26227            | 27127            | 27304            | 28479            | 27924            | 27934            | 27939            | 27966            | 28520            | 29259            | 29257            | 29272            | 29275            | 29310            | 31828            | 31814            | 31818            | 31818            | 31855            |
|                  |                         | S/T                                  | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                   | 2.95             | 2.96             | 2.97             | 2.97             | 2.99             | 2.98             | 2.98             | 2.98             | 2.98             | 2.99             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                  | 82°F<br>27.8°C          | TC                                   | 25834            | 26001            | 26998            | 27177            | 28378            | 27688            | 27702            | 27725            | 27749            | 28419            | 29046            | 29048            | 29064            | 29067            | 29116            | 31660            | 31644            | 31650            | 31653            | 31695            |
|                  |                         | S/T                                  | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 2.97             | 2.97             | 2.99             | 2.99             | 3.00             | 3.00             | 2.99             | 2.99             | 3.00             | 3.00             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             | 3.04             | 3.04             | 3.04             | 3.04             | 3.04             |
|                  | 86°F<br>30.0°C          | TC                                   | 25699            | 25923            | 27004            | 27186            | 28409            | 27578            | 27590            | 27628            | 27655            | 28450            | 28949            | 28953            | 28968            | 28970            | 29036            | 31592            | 31577            | 31583            | 31589            | 31629            |
|                  |                         | S/T                                  | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 2.95             | 2.96             | 2.97             | 2.97             | 2.99             | 2.98             | 2.98             | 2.98             | 2.98             | 2.99             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                  | 95°F<br>35.0°C          | TC                                   | 25789            | 25788            | 25790            | 25819            | 26480            | 27516            | 27509            | 27507            | 27507            | 27513            | 28761            | 28758            | 28752            | 28752            | 28753            | 31168            | 31157            | 31148            | 31147            | 31146            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 22: COOLING PERFORMANCE 48K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           | 23.0°C           | 25.0°C           | 26.7°C           | 27.0°C           | 29.0°C           |
| 1147             | -13°F<br>-25.0°C        | TC                                   | 24464            | 24459            | 24454            | 24454            | 24956            | 25566            | 25559            | 25552            | 25550            | 25542            | 26346            | 26338            | 26329            | 26327            | 26315            | 27811            | 27804            | 27793            | 27792            | 27774            |
|                  |                         | S/T                                  | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                         | PI                                   | 3.46             | 3.47             | 3.47             | 3.47             | 3.45             | 3.43             | 3.43             | 3.44             | 3.44             | 3.44             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.43             |
|                  | -4°F<br>-20.0°C         | TC                                   | 26346            | 26341            | 26335            | 26335            | 26875            | 27532            | 27525            | 27517            | 27516            | 27507            | 28373            | 28364            | 28354            | 28352            | 28339            | 29950            | 29943            | 29931            | 29930            | 29910            |
|                  |                         | S/T                                  | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.59             | 3.59             | 3.59             | 3.59             | 3.57             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.54             | 3.54             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             |
|                  | 0°F<br>-17.8°C          | TC                                   | 27208            | 27200            | 27194            | 27193            | 27871            | 28421            | 28411            | 28400            | 28398            | 28386            | 29279            | 29267            | 29254            | 29252            | 29234            | 30873            | 30866            | 30863            | 30861            | 30865            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                         | PI                                   | 3.62             | 3.62             | 3.62             | 3.62             | 3.61             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             | 3.62             | 3.62             | 3.62             | 3.62             | 3.62             |
|                  | 5°F<br>-15.0°C          | TC                                   | 28035            | 28037            | 28125            | 28165            | 28989            | 29400            | 29399            | 29403            | 29404            | 29439            | 30379            | 30377            | 30379            | 30380            | 30386            | 32246            | 32237            | 32238            | 32236            | 32238            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.67             | 3.67             | 3.67             | 3.67             | 3.67             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             |
|                  | 14°F<br>-10.0°C         | TC                                   | 31131            | 31124            | 31118            | 31117            | 32001            | 32721            | 32711            | 32702            | 32701            | 32690            | 33858            | 33847            | 33835            | 33833            | 33817            | 36019            | 36009            | 35994            | 35993            | 35970            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.67             | 3.67             | 3.67             | 3.67             | 3.66             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             |
|                  | 17°F<br>-8.3°C          | TC                                   | 32156            | 32146            | 32230            | 32275            | 33242            | 33798            | 33786            | 33794            | 33795            | 33831            | 34982            | 34982            | 34987            | 34989            | 35000            | 37277            | 37266            | 37269            | 37267            | 37276            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                         | PI                                   | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.63             | 3.65             | 3.65             | 3.65             | 3.65             | 3.65             |
|                  | 23°F<br>-5.0°C          | TC                                   | 32762            | 32765            | 32899            | 32957            | 34040            | 34481            | 34480            | 34486            | 34487            | 34543            | 35716            | 35715            | 35719            | 35720            | 35728            | 38083            | 38071            | 38073            | 38071            | 38077            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.42             | 3.42             | 3.42             | 3.42             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             | 3.43             | 3.45             | 3.45             | 3.45             | 3.45             | 3.45             | 3.50             | 3.50             | 3.50             | 3.50             | 3.50             |
|                  | 35°F<br>1.7°C           | TC                                   | 34291            | 34288            | 34288            | 34289            | 34730            | 35995            | 35989            | 35986            | 35986            | 35987            | 37192            | 37189            | 37183            | 37182            | 37181            | 39427            | 39418            | 39410            | 39409            | 39407            |
|                  |                         | S/T                                  | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                         | PI                                   | 2.80             | 2.80             | 2.80             | 2.80             | 2.84             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.36             | 3.35             | 3.35             | 3.35             | 3.35             |
|                  | 41°F<br>5.0°C           | TC                                   | 34596            | 34679            | 34680            | 34690            | 35261            | 36395            | 36388            | 36385            | 36385            | 36386            | 37598            | 37595            | 37589            | 37588            | 37587            | 39844            | 39835            | 39826            | 39824            | 39822            |
|                  |                         | S/T                                  | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 2.88             | 2.89             | 2.89             | 2.89             | 2.94             | 3.07             | 3.07             | 3.07             | 3.06             | 3.07             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.49             | 3.49             | 3.49             | 3.49             | 3.49             |
|                  | 47°F<br>8.3°C           | TC                                   | 35071            | 35069            | 35069            | 35103            | 35794            | 36792            | 36785            | 36782            | 36783            | 36783            | 38005            | 38000            | 37995            | 37994            | 37993            | 40262            | 40253            | 40245            | 40244            | 40240            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                         | PI                                   | 2.98             | 2.98             | 2.98             | 2.98             | 3.06             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             | 3.62             | 3.62             | 3.62             | 3.62             | 3.62             |
|                  | 50°F<br>10.0°C          | TC                                   | 34240            | 34385            | 35356            | 35557            | 36901            | 36272            | 36295            | 36304            | 36342            | 36947            | 37745            | 37766            | 37788            | 37791            | 37846            | 40556            | 40541            | 40588            | 40599            | 40654            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                   | 3.34             | 3.34             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             |
|                  | 59°F<br>15.0°C          | TC                                   | 33519            | 33758            | 34951            | 35160            | 36557            | 35616            | 35633            | 35687            | 35720            | 36604            | 37132            | 37151            | 37169            | 37171            | 37262            | 40047            | 40030            | 40070            | 40078            | 40121            |
|                  |                         | S/T                                  | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 3.39             | 3.39             | 3.40             | 3.40             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.44             | 3.44             | 3.44             | 3.44             | 3.44             |
|                  | 68°F<br>20.0°C          | TC                                   | 32820            | 33372            | 34585            | 34800            | 36245            | 34969            | 34982            | 35078            | 35121            | 36292            | 36519            | 36538            | 36550            | 36551            | 36693            | 39506            | 39489            | 39527            | 39535            | 39567            |
|                  |                         | S/T                                  | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                         | PI                                   | 3.44             | 3.44             | 3.46             | 3.46             | 3.49             | 3.47             | 3.47             | 3.47             | 3.47             | 3.49             | 3.49             | 3.49             | 3.49             | 3.49             | 3.49             | 3.54             | 3.54             | 3.53             | 3.53             | 3.53             |
|                  | 77°F<br>25.0°C          | TC                                   | 32073            | 32822            | 34079            | 34303            | 35803            | 34291            | 34307            | 34439            | 34495            | 35848            | 35882            | 35913            | 35931            | 35933            | 36118            | 38960            | 38942            | 39003            | 39013            | 39058            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                         | PI                                   | 3.52             | 3.52             | 3.54             | 3.54             | 3.56             | 3.54             | 3.54             | 3.55             | 3.55             | 3.56             | 3.57             | 3.56             | 3.56             | 3.56             | 3.57             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             |
|                  | 82°F<br>27.8°C          | TC                                   | 31768            | 32631            | 33916            | 34144            | 35675            | 33995            | 34014            | 34177            | 34244            | 35723            | 35611            | 35649            | 35668            | 35670            | 35895            | 38738            | 38745            | 38794            | 38805            | 38855            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                         | PI                                   | 3.54             | 3.55             | 3.56             | 3.56             | 3.58             | 3.56             | 3.56             | 3.57             | 3.57             | 3.58             | 3.58             | 3.58             | 3.58             | 3.58             | 3.58             | 3.62             | 3.62             | 3.62             | 3.62             | 3.62             |
|                  | 86°F<br>30.0°C          | TC                                   | 31632            | 32630            | 33939            | 34170            | 35729            | 33871            | 33888            | 34090            | 34181            | 35776            | 35505            | 35543            | 35560            | 35562            | 35837            | 38670            | 38672            | 38729            | 38739            | 38784            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                         | PI                                   | 3.52             | 3.53             | 3.55             | 3.55             | 3.57             | 3.55             | 3.55             | 3.55             | 3.55             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             | 3.61             | 3.61             | 3.61             | 3.61             | 3.61             |
|                  | 95°F<br>35.0°C          | TC                                   | 31750            | 31756            | 31931            | 32013            | 33333            | 33825            | 33821            | 33830            | 33832            | 33892            | 35318            | 35317            | 35316            | 35318            | 35334            | 38197            |                  |                  |                  |                  |

Table 22: COOLING PERFORMANCE 48K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1676             | -13°F<br>-25.0°C        | TC                                   | 30148            | 30137            | 30129            | 30304            | 31196            | 31475            | 31458            | 31444            | 31441            | 31420            | 32415            | 32398            | 32376            | 32373            | 32350            | 34193            | 34184            | 34159            | 34151            | 34100            |
|                  |                         | S/T                                  | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.15             | 4.16             | 4.16             | 4.15             | 4.13             | 4.12             | 4.13             | 4.13             | 4.13             | 4.13             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             | 4.13             | 4.13             | 4.13             | 4.13             | 4.13             |
|                  | -4°F<br>-20.0°C         | TC                                   | 32467            | 32455            | 32446            | 32635            | 33596            | 33896            | 33878            | 33862            | 33860            | 33836            | 34908            | 34890            | 34867            | 34863            | 34839            | 36824            | 36814            | 36787            | 36777            | 36723            |
|                  |                         | S/T                                  | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.30             | 4.30             | 4.31             | 4.30             | 4.28             | 4.27             | 4.27             | 4.28             | 4.28             | 4.28             | 4.26             | 4.26             | 4.27             | 4.27             | 4.27             | 4.28             | 4.28             | 4.28             | 4.28             | 4.28             |
|                  | 0°F<br>-17.8°C          | TC                                   | 33538            | 33524            | 33653            | 33910            | 34849            | 35001            | 34974            | 34954            | 34951            | 34945            | 36027            | 36006            | 35974            | 35969            | 35937            | 37969            | 37958            | 37959            | 37964            | 37992            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.34             | 4.34             | 4.34             | 4.34             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             |
|                  | 5°F<br>-15.0°C          | TC                                   | 34525            | 34556            | 35022            | 35182            | 36258            | 36167            | 36174            | 36178            | 36179            | 36357            | 37350            | 37347            | 37357            | 37358            | 37363            | 39582            | 39570            | 39571            | 39574            | 39595            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.37             | 4.38             | 4.38             | 4.38             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.41             | 4.41             | 4.41             | 4.41             | 4.41             | 4.50             | 4.50             | 4.50             | 4.50             | 4.50             |
|                  | 14°F<br>-10.0°C         | TC                                   | 38355            | 38341            | 38500            | 38836            | 40042            | 40281            | 40257            | 40238            | 40235            | 40214            | 41672            | 41653            | 41621            | 41615            | 41580            | 44293            | 44279            | 44247            | 44237            | 44169            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.41             | 4.41             | 4.41             | 4.41             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.39             | 4.39             | 4.40             | 4.40             | 4.40             |
|                  | 17°F<br>-8.3°C          | TC                                   | 39677            | 39687            | 40173            | 40405            | 41705            | 41669            | 41672            | 41681            | 41682            | 41879            | 42997            | 43014            | 43042            | 43044            | 43055            | 45857            | 45843            | 45848            | 45857            | 45899            |
|                  |                         | S/T                                  | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.38             | 4.38             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.40             | 4.40             | 4.40             | 4.40             | 4.40             |
|                  | 23°F<br>-5.0°C          | TC                                   | 40392            | 40448            | 41106            | 41308            | 42658            | 42465            | 42476            | 42481            | 42482            | 42733            | 43962            | 43961            | 43974            | 43976            | 43983            | 46796            | 46782            | 46784            | 46790            | 46822            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.10             | 4.10             | 4.11             | 4.11             | 4.13             | 4.12             | 4.12             | 4.13             | 4.13             | 4.13             | 4.15             | 4.15             | 4.15             | 4.15             | 4.15             | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             |
|                  | 35°F<br>1.7°C           | TC                                   | 42386            | 42387            | 42469            | 42517            | 43610            | 44420            | 44414            | 44415            | 44417            | 44418            | 45847            | 45844            | 45839            | 45839            | 45844            | 48503            | 48491            | 48481            | 48488            | 48479            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.36             | 3.36             | 3.37             | 3.37             | 3.48             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.71             | 3.71             | 3.71             | 3.71             | 3.72             | 4.04             | 4.04             | 4.04             | 4.04             | 4.04             |
|                  | 41°F<br>5.0°C           | TC                                   | 42868            | 42869            | 42987            | 43045            | 44267            | 44915            | 44909            | 44911            | 44911            | 44951            | 46351            | 46346            | 46343            | 46343            | 46348            | 49020            | 49008            | 48998            | 49004            | 48996            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.47             | 3.47             | 3.49             | 3.49             | 3.61             | 3.68             | 3.68             | 3.68             | 3.68             | 3.69             | 3.85             | 3.85             | 3.85             | 3.85             | 3.85             | 4.20             | 4.20             | 4.20             | 4.20             | 4.20             |
|                  | 47°F<br>8.3°C           | TC                                   | 43346            | 43346            | 43513            | 43589            | 44930            | 45409            | 45402            | 45404            | 45404            | 45472            | 46855            | 46850            | 46846            | 46846            | 46849            | 49544            | 49531            | 49527            | 49526            | 49519            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.58             | 3.58             | 3.59             | 3.60             | 3.76             | 3.81             | 3.81             | 3.81             | 3.81             | 3.82             | 3.99             | 3.99             | 3.99             | 3.99             | 3.99             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             |
|                  | 50°F<br>10.0°C          | TC                                   | 42247            | 42938            | 44372            | 44626            | 46336            | 44730            | 44756            | 44901            | 44959            | 46390            | 46491            | 46551            | 46578            | 46581            | 46791            | 49840            | 49864            | 49985            | 49999            | 50066            |
|                  |                         | S/T                                  | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                         | PI                                   | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.01             | 4.01             | 4.01             | 4.01             | 4.01             |
|                  | 59°F<br>15.0°C          | TC                                   | 41359            | 42355            | 43846            | 44110            | 45884            | 43883            | 43902            | 44120            | 44205            | 45937            | 45705            | 45754            | 45773            | 45775            | 46077            | 49196            | 49209            | 49305            | 49316            | 49365            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                         | PI                                   | 4.07             | 4.08             | 4.09             | 4.10             | 4.11             | 4.09             | 4.09             | 4.10             | 4.10             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.13             | 4.13             | 4.13             | 4.13             | 4.13             |
|                  | 68°F<br>20.0°C          | TC                                   | 40513            | 41820            | 43358            | 43632            | 45467            | 43045            | 43058            | 43395            | 43679            | 45517            | 44918            | 44955            | 44968            | 44969            | 45481            | 48502            | 48518            | 48596            | 48605            | 48640            |
|                  |                         | S/T                                  | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                         | PI                                   | 4.13             | 4.15             | 4.17             | 4.18             | 4.20             | 4.17             | 4.17             | 4.17             | 4.18             | 4.20             | 4.20             | 4.20             | 4.20             | 4.20             | 4.20             | 4.25             | 4.25             | 4.25             | 4.25             | 4.25             |
|                  | 77°F<br>25.0°C          | TC                                   | 39592            | 41109            | 42704            | 42987            | 44887            | 42167            | 42187            | 42672            | 43038            | 44939            | 44092            | 44142            | 44163            | 44214            | 44980            | 47754            | 47797            | 47904            | 47916            | 47968            |
|                  |                         | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                         | PI                                   | 4.23             | 4.25             | 4.27             | 4.27             | 4.29             | 4.26             | 4.26             | 4.27             | 4.27             | 4.29             | 4.29             | 4.29             | 4.28             | 4.29             | 4.29             | 4.33             | 4.33             | 4.33             | 4.33             | 4.33             |
|                  | 82°F<br>27.8°C          | TC                                   | 39207            | 40870            | 42498            | 42788            | 44734            | 41795            | 41863            | 42550            | 42840            | 44784            | 43750            | 43809            | 43831            | 43899            | 44825            | 47455            | 47516            | 47634            | 47648            | 47704            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                  |                         | PI                                   | 4.26             | 4.28             | 4.29             | 4.30             | 4.32             | 4.29             | 4.29             | 4.29             | 4.30             | 4.32             | 4.31             | 4.31             | 4.31             | 4.31             | 4.32             | 4.36             | 4.35             | 4.35             | 4.35             | 4.35             |
|                  | 86°F<br>30.0°C          | TC                                   | 39028            | 40835            | 42492            | 42785            | 44779            | 41605            | 41691            | 42543            | 42836            | 44814            | 43590            | 43641            | 43710            | 43750            | 44856            | 47336            | 47405            | 47516            | 47528            | 47577            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                  |                         | PI                                   | 4.24             | 4.26             | 4.28             | 4.28             | 4.31             | 4.27             | 4.27             | 4.28             | 4.29             | 4.31             | 4.30             | 4.30             | 4.30             | 4.30             | 4.31             | 4.35             | 4.35             | 4.34             | 4.34             | 4.34             |
|                  | 95°F<br>35.0°C          | TC                                   | 39113            | 39183            | 40024            | 40259            | 41838            | 41614            | 41625            | 41639            | 41641            | 41923            | 43411            | 43416            | 43438            | 43442            | 43461            | 46864            | 46847            | 46852            | 46850            | 46885            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 22: COOLING PERFORMANCE 48K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              |
| 2206             | -13°F<br>-25.0°C        | TC                                   | 37183            | 37166            | 37696            | 37852            | 38894            | 38795            | 38763            | 38738            | 38735            | 38703            | 39955            | 39904            | 39867            | 39861            | 39823            | 42144            | 42133            | 42047            | 42031            | 41942            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.04             | 5.04             | 5.03             | 5.03             | 5.02             | 5.01             | 5.01             | 5.02             | 5.02             | 5.02             | 5.00             | 5.01             | 5.01             | 5.01             | 5.01             | 5.04             | 5.04             | 5.04             | 5.04             | 5.04             |
|                  | -4°F<br>-20.0°C         | TC                                   | 40043            | 40025            | 40596            | 40764            | 41886            | 41779            | 41745            | 41718            | 41714            | 41680            | 43028            | 42974            | 42933            | 42927            | 42886            | 45386            | 45374            | 45281            | 45264            | 45168            |
|                  |                         | S/T                                  | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.22             | 5.22             | 5.21             | 5.21             | 5.19             | 5.19             | 5.19             | 5.20             | 5.20             | 5.20             | 5.18             | 5.19             | 5.19             | 5.19             | 5.19             | 5.22             | 5.22             | 5.22             | 5.22             | 5.22             |
|                  | 0°F<br>-17.8°C          | TC                                   | 41372            | 41347            | 42115            | 42290            | 43452            | 43146            | 43099            | 43065            | 43060            | 43493            | 44414            | 44351            | 44296            | 44290            | 44269            | 46803            | 46792            | 46788            | 46795            | 46825            |
|                  |                         | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 5.27             | 5.27             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.26             | 5.27             | 5.27             | 5.27             | 5.27             | 5.27             | 5.32             | 5.32             | 5.33             | 5.33             | 5.33             |
|                  | 5°F<br>-15.0°C          | TC                                   | 42558            | 42705            | 43681            | 43882            | 45234            | 44554            | 44565            | 44568            | 44614            | 45279            | 45979            | 45990            | 46000            | 46001            | 46062            | 48676            | 48661            | 48686            | 48692            | 48713            |
|                  |                         | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 5.30             | 5.31             | 5.32             | 5.32             | 5.35             | 5.33             | 5.33             | 5.33             | 5.33             | 5.35             | 5.37             | 5.37             | 5.37             | 5.37             | 5.37             | 5.48             | 5.48             | 5.48             | 5.48             | 5.49             |
|                  | 14°F<br>-10.0°C         | TC                                   | 47332            | 47308            | 48274            | 48500            | 50004            | 49682            | 49638            | 49604            | 49599            | 50063            | 51384            | 51319            | 51267            | 51259            | 51208            | 54637            | 54620            | 54516            | 54497            | 54381            |
|                  |                         | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.35             | 5.35             | 5.34             | 5.34             | 5.33             | 5.33             | 5.33             | 5.33             | 5.33             | 5.33             | 5.32             | 5.32             | 5.33             | 5.33             | 5.33             | 5.35             | 5.35             | 5.35             | 5.35             | 5.35             |
|                  | 17°F<br>-8.3°C          | TC                                   | 48804            | 48964            | 50095            | 50339            | 51974            | 51234            | 51255            | 51264            | 51307            | 52030            | 52982            | 53002            | 53023            | 53025            | 53091            | 56348            | 56332            | 56324            | 56334            | 56381            |
|                  |                         | S/T                                  | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             | 5.30             | 5.30             | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             | 5.32             | 5.36             | 5.35             | 5.36             | 5.36             | 5.36             |
|                  | 23°F<br>-5.0°C          | TC                                   | 49848            | 50063            | 51358            | 51611            | 53312            | 52372            | 52388            | 52394            | 52463            | 53369            | 54179            | 54197            | 54211            | 54213            | 54300            | 57608            | 57590            | 57631            | 57639            | 57673            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 4.98             | 4.98             | 5.00             | 5.00             | 5.03             | 5.01             | 5.01             | 5.01             | 5.01             | 5.03             | 5.05             | 5.05             | 5.05             | 5.05             | 5.05             | 5.14             | 5.14             | 5.14             | 5.14             | 5.15             |
|                  | 35°F<br>1.7°C           | TC                                   | 52421            | 52423            | 52731            | 52878            | 54583            | 54871            | 54869            | 54874            | 54874            | 55020            | 56589            | 56585            | 56588            | 56589            | 56595            | 59775            | 59761            | 59758            | 59756            | 59761            |
|                  |                         | S/T                                  | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.08             | 4.08             | 4.11             | 4.13             | 4.30             | 4.33             | 4.33             | 4.33             | 4.33             | 4.34             | 4.52             | 4.52             | 4.52             | 4.52             | 4.52             | 4.91             | 4.91             | 4.91             | 4.91             | 4.91             |
|                  | 41°F<br>5.0°C           | TC                                   | 53017            | 53018            | 53440            | 53811            | 55402            | 55483            | 55481            | 55484            | 55484            | 55679            | 57213            | 57210            | 57213            | 57214            | 57217            | 60424            | 60409            | 60405            | 60402            | 60409            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 4.21             | 4.21             | 4.25             | 4.29             | 4.47             | 4.48             | 4.48             | 4.48             | 4.48             | 4.50             | 4.68             | 4.68             | 4.68             | 4.68             | 4.68             | 5.10             | 5.10             | 5.10             | 5.10             | 5.10             |
|                  | 47°F<br>8.3°C           | TC                                   | 53611            | 53647            | 54366            | 54609            | 56225            | 56097            | 56095            | 56096            | 56096            | 56356            | 57839            | 57834            | 57838            | 57837            | 57837            | 61077            | 61062            | 61057            | 61054            | 61060            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                         | PI                                   | 4.34             | 4.35             | 4.43             | 4.46             | 4.64             | 4.63             | 4.63             | 4.63             | 4.63             | 4.66             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 5.28             | 5.28             | 5.28             | 5.28             | 5.28             |
|                  | 50°F<br>10.0°C          | TC                                   | 52279            | 53718            | 55531            | 55852            | 58018            | 55230            | 55261            | 55643            | 55818            | 58073            | 57385            | 57459            | 57490            | 57493            | 58046            | 61340            | 61502            | 61660            | 61679            | 61756            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                         | PI                                   | 4.89             | 4.89             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.87             | 4.87             | 4.87             | 4.87             |
|                  | 59°F<br>15.0°C          | TC                                   | 51165            | 52960            | 54840            | 55174            | 57419            | 54135            | 54209            | 54824            | 55233            | 57475            | 56368            | 56425            | 56445            | 56527            | 57523            | 60528            | 60649            | 60770            | 60784            | 60835            |
|                  |                         | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                         | PI                                   | 4.95             | 4.97             | 4.98             | 4.98             | 4.99             | 4.97             | 4.97             | 4.98             | 4.98             | 5.00             | 4.99             | 4.99             | 4.99             | 4.99             | 5.00             | 5.03             | 5.02             | 5.02             | 5.02             | 5.02             |
|                  | 68°F<br>20.0°C          | TC                                   | 50034            | 52170            | 54105            | 54449            | 56759            | 52969            | 53089            | 54163            | 54508            | 56815            | 55259            | 55301            | 55400            | 55449            | 56862            | 59542            | 59652            | 59746            | 59756            | 59787            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                  |                         | PI                                   | 5.02             | 5.05             | 5.08             | 5.09             | 5.12             | 5.07             | 5.07             | 5.08             | 5.09             | 5.12             | 5.10             | 5.10             | 5.10             | 5.10             | 5.12             | 5.17             | 5.17             | 5.16             | 5.16             | 5.16             |
|                  | 77°F<br>25.0°C          | TC                                   | 48871            | 51224            | 53229            | 53584            | 55978            | 51809            | 51974            | 53287            | 53643            | 56034            | 54156            | 54217            | 54355            | 54416            | 56081            | 58491            | 58668            | 58804            | 58818            | 58873            |
|                  |                         | S/T                                  | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                  |                         | PI                                   | 5.14             | 5.17             | 5.19             | 5.20             | 5.22             | 5.18             | 5.18             | 5.19             | 5.20             | 5.22             | 5.21             | 5.21             | 5.21             | 5.21             | 5.23             | 5.27             | 5.27             | 5.26             | 5.26             | 5.26             |
|                  | 82°F<br>27.8°C          | TC                                   | 48423            | 50895            | 52948            | 53306            | 55748            | 51313            | 51511            | 52994            | 53366            | 55806            | 53700            | 53768            | 53935            | 54002            | 55855            | 58061            | 58279            | 58431            | 58447            | 58511            |
|                  |                         | S/T                                  | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                  |                         | PI                                   | 5.18             | 5.21             | 5.23             | 5.23             | 5.26             | 5.21             | 5.21             | 5.23             | 5.23             | 5.26             | 5.24             | 5.24             | 5.24             | 5.24             | 5.26             | 5.30             | 5.29             | 5.29             | 5.29             | 5.29             |
|                  | 86°F<br>30.0°C          | TC                                   | 48475            | 50895            | 52976            | 53346            | 55830            | 51121            | 51356            | 53035            | 53406            | 55888            | 53543            | 53605            | 53801            | 53879            | 55936            | 57966            | 58190            | 58329            | 58343            | 58397            |
|                  |                         | S/T                                  | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                  |                         | PI                                   | 5.16             | 5.19             | 5.22             | 5.22             | 5.25             | 5.20             | 5.20             | 5.22             | 5.22             | 5.25             | 5.23             | 5.23             | 5.23             | 5.23             | 5.25             | 5.30             | 5.29             | 5.28             | 5.28             | 5.28             |
|                  | 95°F<br>35.0°C          | TC                                   | 48228            | 48488            | 50056            | 50352            | 52342            | 51256            | 51286            | 51302            | 51363            | 52408            | 53456            | 53467            | 53500            | 53505            | 53594            | 57601            | 57579            | 57591            | 57608            | 57685            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.0              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

## COOLING PERFORMANCE 55K

Table 23: COOLING PERFORMANCE 55K - MIXED

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1201             | -13°F<br>-25.0°C        | TC                                   | 27330            | 27326            | 27322            | 27321            | 27317            | 28602            | 28594            | 28590            | 28589            | 28583            | 29503            | 29496            | 29489            | 29488            | 29482            | 31195            | 31187            | 31180            | 31179            | 31169            |
|                  |                         | S/T                                  | 0.72             | 0.80             | 0.87             | 0.88             | 0.97             | 0.59             | 0.67             | 0.74             | 0.76             | 0.83             | 0.51             | 0.59             | 0.66             | 0.67             | 0.75             | 0.38             | 0.46             | 0.51             | 0.52             | 0.60             |
|                  |                         | PI                                   | 3.30             | 3.30             | 3.30             | 3.30             | 3.30             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             |
|                  | -4°F<br>-20.0°C         | TC                                   | 29432            | 29427            | 29424            | 29423            | 29418            | 30802            | 30794            | 30789            | 30788            | 30782            | 31773            | 31765            | 31758            | 31757            | 31749            | 33595            | 33586            | 33579            | 33577            | 33566            |
|                  |                         | S/T                                  | 0.72             | 0.80             | 0.88             | 0.89             | 0.97             | 0.60             | 0.68             | 0.75             | 0.76             | 0.84             | 0.52             | 0.59             | 0.66             | 0.67             | 0.75             | 0.39             | 0.47             | 0.51             | 0.52             | 0.60             |
|                  |                         | PI                                   | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.38             | 3.38             | 3.38             | 3.38             | 3.38             | 3.35             | 3.36             | 3.36             | 3.36             | 3.36             | 3.34             | 3.34             | 3.34             | 3.34             | 3.35             |
|                  | 0°F<br>-17.8°C          | TC                                   | 30389            | 30384            | 30379            | 30378            | 30369            | 31790            | 31784            | 31777            | 31775            | 31767            | 32783            | 32773            | 32766            | 32764            | 32754            | 34632            | 34623            | 34616            | 34615            | 34601            |
|                  |                         | S/T                                  | 0.72             | 0.81             | 0.88             | 0.90             | 0.98             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                         | PI                                   | 3.44             | 3.44             | 3.44             | 3.44             | 3.44             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             | 3.42             | 3.42             | 3.42             | 3.42             | 3.42             |
|                  | 5°F<br>-15.0°C          | TC                                   | 31343            | 31343            | 31343            | 31343            | 31811            | 32908            | 32902            | 32901            | 32902            | 32904            | 34033            | 34031            | 34026            | 34025            | 34028            | 36190            | 36181            | 36173            | 36171            | 36171            |
|                  |                         | S/T                                  | 0.73             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.86             | 0.52             | 0.60             | 0.67             | 0.68             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.48             | 3.48             | 3.48             | 3.48             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             |
|                  | 14°F<br>-10.0°C         | TC                                   | 31940            | 31936            | 31932            | 31931            | 32087            | 33617            | 33608            | 33603            | 33602            | 33596            | 34815            | 34807            | 34798            | 34797            | 34789            | 37090            | 37079            | 37070            | 37069            | 37057            |
|                  |                         | S/T                                  | 0.73             | 0.81             | 0.89             | 0.90             | 0.99             | 0.60             | 0.68             | 0.75             | 0.76             | 0.85             | 0.52             | 0.60             | 0.66             | 0.68             | 0.76             | 0.39             | 0.47             | 0.51             | 0.53             | 0.60             |
|                  |                         | PI                                   | 3.30             | 3.31             | 3.31             | 3.31             | 3.30             | 3.28             | 3.28             | 3.28             | 3.28             | 3.28             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             |
|                  | 17°F<br>-8.3°C          | TC                                   | 32163            | 32156            | 32152            | 32151            | 32614            | 33850            | 33842            | 33835            | 33834            | 33834            | 35061            | 35060            | 35055            | 35054            | 35060            | 37429            | 37418            | 37409            | 37407            | 37409            |
|                  |                         | S/T                                  | 0.73             | 0.82             | 0.89             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.22             | 3.22             | 3.22             | 3.22             | 3.22             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             |
|                  | 23°F<br>-5.0°C          | TC                                   | 32034            | 32035            | 32035            | 32056            | 32642            | 33758            | 33752            | 33751            | 33752            | 33755            | 34999            | 34996            | 34991            | 34991            | 34994            | 37384            | 37374            | 37365            | 37363            | 37364            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.90             | 0.91             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.47             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.04             | 3.04             | 3.04             | 3.04             | 3.04             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             |
|                  | 35°F<br>1.7°C           | TC                                   | 32039            | 32037            | 32035            | 32035            | 32078            | 33699            | 33696            | 33692            | 33691            | 33689            | 34872            | 34865            | 34864            | 34863            | 34857            | 37068            | 37060            | 37053            | 37052            | 37050            |
|                  |                         | S/T                                  | 0.70             | 0.78             | 0.85             | 0.86             | 0.93             | 0.59             | 0.66             | 0.72             | 0.74             | 0.81             | 0.51             | 0.58             | 0.64             | 0.65             | 0.73             | 0.39             | 0.46             | 0.50             | 0.51             | 0.58             |
|                  |                         | PI                                   | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.66             | 2.66             | 2.66             | 2.66             | 2.66             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.01             | 3.01             | 3.01             | 3.01             | 3.01             |
|                  | 41°F<br>5.0°C           | TC                                   | 32104            | 32100            | 32098            | 32098            | 32173            | 33754            | 33750            | 33746            | 33745            | 33743            | 34920            | 34912            | 34910            | 34909            | 34903            | 37104            | 37096            | 37088            | 37088            | 37085            |
|                  |                         | S/T                                  | 0.71             | 0.79             | 0.86             | 0.87             | 0.95             | 0.59             | 0.67             | 0.73             | 0.74             | 0.82             | 0.51             | 0.59             | 0.65             | 0.66             | 0.73             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                         | PI                                   | 2.69             | 2.69             | 2.69             | 2.69             | 2.70             | 2.86             | 2.86             | 2.86             | 2.86             | 2.86             | 2.98             | 2.98             | 2.98             | 2.98             | 2.98             | 3.25             | 3.25             | 3.25             | 3.25             | 3.25             |
|                  | 47°F<br>8.3°C           | TC                                   | 32162            | 32158            | 32157            | 32156            | 32268            | 33804            | 33800            | 33796            | 33796            | 33793            | 34966            | 34958            | 34956            | 34955            | 34950            | 37137            | 37129            | 37122            | 37121            | 37117            |
|                  |                         | S/T                                  | 0.71             | 0.80             | 0.87             | 0.88             | 0.96             | 0.59             | 0.67             | 0.74             | 0.75             | 0.83             | 0.51             | 0.59             | 0.65             | 0.66             | 0.74             | 0.39             | 0.46             | 0.51             | 0.52             | 0.59             |
|                  |                         | PI                                   | 2.86             | 2.86             | 2.86             | 2.86             | 2.87             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             | 3.19             | 3.19             | 3.19             | 3.19             | 3.19             | 3.49             | 3.49             | 3.49             | 3.49             | 3.49             |
|                  | 50°F<br>10.0°C          | TC                                   | 31528            | 31533            | 31823            | 32082            | 33272            | 33435            | 33443            | 33452            | 33454            | 33576            | 34819            | 34822            | 34837            | 34840            | 34854            | 37501            | 37486            | 37492            | 37489            | 37522            |
|                  |                         | S/T                                  | 0.79             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 3.20             | 3.20             | 3.20             | 3.20             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.21             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             |
|                  | 59°F<br>15.0°C          | TC                                   | 31056            | 31104            | 31716            | 31902            | 33149            | 33031            | 33038            | 33044            | 33045            | 33248            | 34476            | 34468            | 34482            | 34484            | 34494            | 37248            | 37233            | 37235            | 37234            | 37262            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 3.21             | 3.21             | 3.22             | 3.22             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             |
|                  | 68°F<br>20.0°C          | TC                                   | 30605            | 30705            | 31572            | 31766            | 33065            | 32638            | 32644            | 32648            | 32648            | 33041            | 34120            | 34114            | 34126            | 34128            | 34134            | 36973            | 36958            | 36959            | 36957            | 36986            |
|                  |                         | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 3.22             | 3.22             | 3.24             | 3.24             | 3.26             | 3.26             | 3.25             | 3.25             | 3.25             | 3.26             | 3.28             | 3.28             | 3.28             | 3.28             | 3.28             | 3.32             | 3.32             | 3.32             | 3.32             | 3.31             |
|                  | 77°F<br>25.0°C          | TC                                   | 30108            | 30257            | 31296            | 31500            | 32855            | 32215            | 32226            | 32233            | 32264            | 32903            | 33755            | 33752            | 33771            | 33773            | 33814            | 36719            | 36702            | 36707            | 36707            | 36750            |
|                  |                         | S/T                                  | 0.83             | 0.96             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.55             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                   | 3.26             | 3.27             | 3.28             | 3.28             | 3.30             | 3.29             | 3.29             | 3.29             | 3.29             | 3.30             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.34             | 3.34             | 3.34             | 3.34             | 3.34             |
|                  | 82°F<br>27.8°C          | TC                                   | 30124            | 30317            | 31480            | 31689            | 33089            | 32285            | 32301            | 32328            | 32356            | 33137            | 33868            | 33870            | 33890            | 33892            | 33950            | 36916            | 36898            | 36904            | 36908            | 36957            |
|                  |                         | S/T                                  | 0.84             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.88             | 0.90             | 1.00             | 0.56             | 0.67             | 0.77             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 3.33             | 3.34             | 3.35             | 3.35             | 3.37             | 3.36             | 3.36             | 3.36             | 3.36             | 3.37             | 3.38             | 3.38             | 3.38             | 3.38             | 3.38             | 3.41             | 3.41             | 3.41             | 3.41             | 3.41             |
|                  | 86°F<br>30.0°C          | TC                                   | 30504            | 30770            | 32053            | 32269            | 33720            | 32734            | 32749            | 32794            | 32826            | 33769            | 34362            | 34366            | 34384            | 34387            | 34465            | 37499            | 37481            | 37487            | 37496            | 37542            |
|                  |                         | S/T                                  | 0.85             | 0.98             | 1.00             | 1.00             | 1.00             | 0.67             | 0.80             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 3.45             | 3.45             | 3.47             | 3.47             | 3.49             | 3.48             | 3.47             | 3.47             | 3.48             | 3.49             | 3.50             | 3.50             | 3.50             | 3.50             | 3.50             | 3.54             | 3.54             | 3.54             | 3.54             | 3.54             |
|                  | 95°F<br>35.0°C          | TC                                   | 31839            | 31838            | 31841            | 31877            | 32693            | 33971            | 33963            | 33961            | 33961            | 33968            | 35508            | 35505            | 35497            | 35497            | 35498            | 38480            | 38466            | 38456            | 38454            | 38454            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.69             | 0.77             | 0.78             | 0.87             | 0.52             |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 23: COOLING PERFORMANCE 55K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              | PI               | TC               | S/T              |
| 1561             | -13°F<br>-25.0°C        | TC                                   | 32886            | 32879            | 32872            | 32872            | 33546            | 34367            | 34357            | 34348            | 34346            | 34335            | 35416            | 35405            | 35392            | 35390            | 35374            | 37385            | 37375            | 37360            | 37359            | 37335            |
|                  |                         | S/T                                  | 0.75             | 0.84             | 0.92             | 0.93             | 1.00             | 0.61             | 0.70             | 0.78             | 0.79             | 0.88             | 0.52             | 0.61             | 0.69             | 0.70             | 0.79             | 0.38             | 0.46             | 0.53             | 0.54             | 0.62             |
|                  |                         | PI                                   | 3.81             | 3.81             | 3.81             | 3.81             | 3.80             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             |
|                  | -4°F<br>-20.0°C         | TC                                   | 35416            | 35408            | 35401            | 35400            | 36127            | 37010            | 37000            | 36990            | 36988            | 36976            | 38140            | 38128            | 38115            | 38112            | 38095            | 40260            | 40250            | 40234            | 40233            | 40207            |
|                  |                         | S/T                                  | 0.75             | 0.84             | 0.92             | 0.94             | 1.00             | 0.61             | 0.71             | 0.78             | 0.79             | 0.88             | 0.53             | 0.61             | 0.69             | 0.70             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.95             | 3.95             | 3.95             | 3.95             | 3.93             | 3.91             | 3.91             | 3.91             | 3.91             | 3.92             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             | 3.90             |
|                  | 0°F<br>-17.8°C          | TC                                   | 36573            | 36563            | 36555            | 36554            | 37465            | 38205            | 38191            | 38176            | 38174            | 38158            | 39357            | 39342            | 39325            | 39321            | 39297            | 41500            | 41491            | 41487            | 41485            | 41490            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                         | PI                                   | 3.98             | 3.98             | 3.98             | 3.98             | 3.97             | 3.96             | 3.96             | 3.96             | 3.96             | 3.97             | 3.96             | 3.96             | 3.96             | 3.96             | 3.96             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             |
|                  | 5°F<br>-15.0°C          | TC                                   | 37686            | 37689            | 37807            | 37861            | 38968            | 39521            | 39519            | 39525            | 39525            | 39572            | 40836            | 40835            | 40837            | 40839            | 40846            | 43346            | 43335            | 43336            | 43333            | 43336            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.02             | 4.03             | 4.04             | 4.04             | 4.04             | 4.04             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             |
|                  | 14°F<br>-10.0°C         | TC                                   | 38419            | 38411            | 38403            | 38402            | 39492            | 40382            | 40370            | 40358            | 40356            | 40343            | 41785            | 41771            | 41756            | 41753            | 41734            | 44452            | 44439            | 44421            | 44419            | 44391            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.95             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.79             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.83             | 3.83             | 3.83             | 3.83             | 3.81             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             |
|                  | 17°F<br>-8.3°C          | TC                                   | 38659            | 38647            | 38748            | 38802            | 39965            | 40633            | 40619            | 40629            | 40630            | 40673            | 42056            | 42056            | 42063            | 42066            | 42078            | 44816            | 44803            | 44807            | 44804            | 44814            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.55             | 0.63             |
|                  |                         | PI                                   | 3.73             | 3.73             | 3.73             | 3.72             | 3.72             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.71             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             |
|                  | 23°F<br>-5.0°C          | TC                                   | 38513            | 38517            | 38673            | 38742            | 40015            | 40534            | 40533            | 40540            | 40541            | 40606            | 41986            | 41985            | 41989            | 41991            | 42000            | 44768            | 44754            | 44756            | 44754            | 44760            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.62             | 0.72             | 0.80             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.81             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.52             | 3.52             | 3.52             | 3.52             | 3.53             | 3.53             | 3.53             | 3.53             | 3.54             | 3.54             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.60             | 3.60             | 3.60             | 3.60             | 3.60             |
|                  | 35°F<br>1.7°C           | TC                                   | 38586            | 38584            | 38584            | 38584            | 39081            | 40505            | 40497            | 40494            | 40494            | 40496            | 41851            | 41848            | 41841            | 41840            | 41839            | 44367            | 44357            | 44348            | 44346            | 44344            |
|                  |                         | S/T                                  | 0.73             | 0.81             | 0.89             | 0.90             | 1.00             | 0.60             | 0.68             | 0.76             | 0.77             | 0.85             | 0.52             | 0.60             | 0.67             | 0.68             | 0.76             | 0.39             | 0.47             | 0.52             | 0.53             | 0.60             |
|                  |                         | PI                                   | 2.93             | 2.93             | 2.93             | 2.93             | 2.97             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             | 3.51             | 3.51             | 3.51             | 3.51             | 3.51             |
|                  | 41°F<br>5.0°C           | TC                                   | 38558            | 38651            | 38651            | 38662            | 39299            | 40562            | 40554            | 40551            | 40552            | 40553            | 41904            | 41900            | 41893            | 41892            | 41891            | 44406            | 44396            | 44386            | 44385            | 44382            |
|                  |                         | S/T                                  | 0.74             | 0.82             | 0.90             | 0.91             | 1.00             | 0.60             | 0.69             | 0.76             | 0.78             | 0.86             | 0.52             | 0.60             | 0.67             | 0.69             | 0.77             | 0.39             | 0.45             | 0.52             | 0.53             | 0.61             |
|                  |                         | PI                                   | 3.12             | 3.13             | 3.13             | 3.13             | 3.19             | 3.32             | 3.32             | 3.32             | 3.32             | 3.32             | 3.47             | 3.47             | 3.47             | 3.47             | 3.47             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             |
|                  | 47°F<br>8.3°C           | TC                                   | 38717            | 38715            | 38715            | 38753            | 39516            | 40617            | 40610            | 40607            | 40607            | 40607            | 41956            | 41951            | 41945            | 41944            | 41943            | 44448            | 44438            | 44429            | 44428            | 44424            |
|                  |                         | S/T                                  | 0.74             | 0.83             | 0.91             | 0.92             | 1.00             | 0.61             | 0.70             | 0.77             | 0.78             | 0.87             | 0.52             | 0.61             | 0.68             | 0.69             | 0.78             | 0.39             | 0.45             | 0.52             | 0.53             | 0.62             |
|                  |                         | PI                                   | 3.33             | 3.33             | 3.33             | 3.34             | 3.42             | 3.56             | 3.56             | 3.56             | 3.56             | 3.56             | 3.72             | 3.72             | 3.71             | 3.71             | 3.71             | 4.06             | 4.05             | 4.05             | 4.05             | 4.05             |
|                  | 50°F<br>10.0°C          | TC                                   | 37877            | 38037            | 39111            | 39333            | 40820            | 40125            | 40150            | 40160            | 40202            | 40871            | 41754            | 41777            | 41802            | 41805            | 41866            | 44864            | 44847            | 44899            | 44911            | 44972            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.88             | 0.39             | 0.48             | 0.56             | 0.58             | 0.68             |
|                  |                         | PI                                   | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             | 3.72             | 3.72             | 3.72             | 3.72             | 3.72             |
|                  | 59°F<br>15.0°C          | TC                                   | 37309            | 37576            | 38904            | 39136            | 40692            | 39644            | 39663            | 39723            | 39760            | 40744            | 41332            | 41353            | 41373            | 41375            | 41476            | 44577            | 44558            | 44602            | 44611            | 44658            |
|                  |                         | S/T                                  | 0.85             | 0.97             | 1.00             | 1.00             | 1.00             | 0.67             | 0.79             | 0.89             | 0.91             | 1.00             | 0.56             | 0.68             | 0.77             | 0.79             | 0.90             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 3.74             | 3.74             | 3.75             | 3.75             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             | 3.77             | 3.77             | 3.77             | 3.77             | 3.77             | 3.79             | 3.79             | 3.79             | 3.79             | 3.79             |
|                  | 68°F<br>20.0°C          | TC                                   | 36766            | 37384            | 38742            | 38984            | 40602            | 39173            | 39187            | 39296            | 39343            | 40654            | 40909            | 40931            | 40944            | 40946            | 41105            | 44255            | 44236            | 44279            | 44288            | 44324            |
|                  |                         | S/T                                  | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.91             | 0.93             | 1.00             | 0.57             | 0.69             | 0.79             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                         | PI                                   | 3.75             | 3.76             | 3.78             | 3.78             | 3.81             | 3.79             | 3.78             | 3.79             | 3.79             | 3.81             | 3.81             | 3.81             | 3.81             | 3.81             | 3.81             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             |
|                  | 77°F<br>25.0°C          | TC                                   | 36165            | 37009            | 38427            | 38679            | 40371            | 38666            | 38684            | 38833            | 38896            | 40422            | 40459            | 40495            | 40515            | 40517            | 40727            | 43930            | 43910            | 43979            | 43991            | 44041            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.82             | 0.93             | 0.95             | 1.00             | 0.57             | 0.70             | 0.80             | 0.82             | 0.94             | 0.39             | 0.49             | 0.59             | 0.60             | 0.72             |
|                  |                         | PI                                   | 3.80             | 3.81             | 3.83             | 3.83             | 3.85             | 3.83             | 3.83             | 3.83             | 3.84             | 3.85             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             | 3.89             | 3.89             | 3.89             | 3.89             | 3.89             |
|                  | 82°F<br>27.8°C          | TC                                   | 36212            | 37196            | 38660            | 38920            | 40666            | 38751            | 38772            | 38959            | 39035            | 40720            | 40593            | 40636            | 40658            | 40660            | 40916            | 44158            | 44165            | 44221            | 44234            | 44291            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.96             | 1.00             | 0.58             | 0.70             | 0.81             | 0.83             | 0.96             | 0.39             | 0.49             | 0.59             | 0.61             | 0.72             |
|                  |                         | PI                                   | 3.88             | 3.90             | 3.91             | 3.92             | 3.93             | 3.92             | 3.92             | 3.92             | 3.92             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             | 3.97             | 3.97             | 3.97             | 3.97             | 3.97             |
|                  | 86°F<br>30.0°C          | TC                                   | 36697            | 37855            | 39373            | 39641            | 41449            | 39294            | 39314            | 39548            | 39653            | 41503            | 41189            | 41233            | 41253            | 41256            | 41575            | 44861            | 44864            | 44929            | 44941            | 44993            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.84             | 0.96             | 0.98             | 1.00             | 0.58             | 0.71             | 0.82             | 0.84             | 0.97             | 0.39             | 0.50             | 0.60             | 0.61             | 0.73             |
|                  |                         | PI                                   | 4.02             | 4.03             | 4.05             | 4.05             | 4.07             | 4.05             | 4.05             | 4.05             | 4.05             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.07             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             |
|                  | 95°F<br>35.0°C          | TC                                   | 38291            | 38298            | 38509            | 38608            | 40199            | 40794            | 40789            | 40799            | 40801            | 40873            | 42594            | 42593            | 42592            | 42593            | 42613            | 46065            | 46049            | 46036            | 46057            | 46044            |
|                  |                         | S/T                                  | 0                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 23: COOLING PERFORMANCE 55K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2288             | -13°F<br>-25.0°C        | TC                                   | 39593            | 39579            | 39568            | 39798            | 40970            | 41336            | 41314            | 41295            | 41292            | 41263            | 42570            | 42548            | 42520            | 42515            | 42485            | 44906            | 44894            | 44861            | 44850            | 44783            |
|                  |                         | S/T                                  | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.46             | 4.46             | 4.46             | 4.46             | 4.44             | 4.43             | 4.43             | 4.44             | 4.44             | 4.44             | 4.42             | 4.42             | 4.42             | 4.42             | 4.43             | 4.44             | 4.44             | 4.44             | 4.44             | 4.44             |
|                  | -4°F<br>-20.0°C         | TC                                   | 42638            | 42624            | 42612            | 42859            | 44121            | 44516            | 44491            | 44471            | 44468            | 44437            | 45844            | 45821            | 45790            | 45785            | 45753            | 48360            | 48347            | 48312            | 48300            | 48228            |
|                  |                         | S/T                                  | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.62             | 4.62             | 4.62             | 4.62             | 4.60             | 4.59             | 4.59             | 4.59             | 4.59             | 4.59             | 4.58             | 4.58             | 4.58             | 4.58             | 4.58             | 4.60             | 4.60             | 4.60             | 4.60             | 4.60             |
|                  | 0°F<br>-17.8°C          | TC                                   | 44046            | 44027            | 44197            | 44534            | 45767            | 45966            | 45932            | 45905            | 45900            | 45893            | 47314            | 47287            | 47244            | 47237            | 47195            | 49864            | 49849            | 49852            | 49857            | 49894            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.66             | 4.66             | 4.66             | 4.66             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.65             | 4.69             | 4.69             | 4.69             | 4.69             | 4.69             |
|                  | 5°F<br>-15.0°C          | TC                                   | 45341            | 45382            | 45994            | 46205            | 47618            | 47498            | 47507            | 47512            | 47513            | 47747            | 49052            | 49048            | 49061            | 49062            | 49068            | 51983            | 51968            | 51968            | 51972            | 52000            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.70             | 4.70             | 4.70             | 4.70             | 4.71             | 4.71             | 4.71             | 4.71             | 4.71             | 4.71             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.83             | 4.83             | 4.83             | 4.83             | 4.83             |
|                  | 14°F<br>-10.0°C         | TC                                   | 46221            | 46204            | 46396            | 46802            | 48254            | 48542            | 48514            | 48491            | 48487            | 48461            | 50219            | 50195            | 50157            | 50150            | 50108            | 53377            | 53361            | 53322            | 53310            | 53228            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.48             | 4.48             | 4.48             | 4.47             | 4.46             | 4.46             | 4.46             | 4.46             | 4.46             | 4.46             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             | 4.47             | 4.47             | 4.47             | 4.47             | 4.47             |
|                  | 17°F<br>-8.3°C          | TC                                   | 46572            | 46584            | 47154            | 47426            | 48953            | 48910            | 48914            | 48925            | 48926            | 49158            | 50469            | 50490            | 50522            | 50524            | 50537            | 53826            | 53810            | 53815            | 53826            | 53875            |
|                  |                         | S/T                                  | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.36             | 4.36             | 4.36             | 4.36             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.35             | 4.38             | 4.38             | 4.38             | 4.38             | 4.39             |
|                  | 23°F<br>-5.0°C          | TC                                   | 46327            | 46392            | 47146            | 47378            | 48926            | 48705            | 48717            | 48723            | 48725            | 49013            | 50422            | 50421            | 50436            | 50438            | 50446            | 53673            | 53657            | 53658            | 53665            | 53703            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                  |                         | PI                                   | 4.11             | 4.12             | 4.12             | 4.12             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.15             | 4.17             | 4.17             | 4.17             | 4.17             | 4.17             | 4.24             | 4.24             | 4.24             | 4.24             | 4.24             |
|                  | 35°F<br>1.7°C           | TC                                   | 46478            | 46480            | 46570            | 46622            | 47820            | 48709            | 48702            | 48704            | 48705            | 48706            | 50274            | 50270            | 50265            | 50265            | 50271            | 53185            | 53173            | 53162            | 53169            | 53160            |
|                  |                         | S/T                                  | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                  |                         | PI                                   | 3.44             | 3.44             | 3.44             | 3.45             | 3.55             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             | 4.13             | 4.12             | 4.12             | 4.12             | 4.12             |
|                  | 41°F<br>5.0°C           | TC                                   | 46550            | 46551            | 46680            | 46743            | 48069            | 48772            | 48767            | 48768            | 48769            | 48812            | 50333            | 50327            | 50323            | 50324            | 50330            | 53231            | 53218            | 53207            | 53213            | 53205            |
|                  |                         | S/T                                  | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.68             | 3.68             | 3.69             | 3.70             | 3.83             | 3.90             | 3.90             | 3.90             | 3.90             | 3.91             | 4.08             | 4.08             | 4.08             | 4.08             | 4.08             | 4.45             | 4.45             | 4.45             | 4.45             | 4.45             |
|                  | 47°F<br>8.3°C           | TC                                   | 46618            | 46618            | 46797            | 46879            | 48321            | 48836            | 48829            | 48830            | 48830            | 48904            | 50391            | 50385            | 50382            | 50382            | 50385            | 53283            | 53269            | 53265            | 53264            | 53256            |
|                  |                         | S/T                                  | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                  |                         | PI                                   | 3.92             | 3.92             | 3.94             | 3.95             | 4.11             | 4.17             | 4.17             | 4.17             | 4.17             | 4.18             | 4.37             | 4.37             | 4.37             | 4.37             | 4.37             | 4.76             | 4.76             | 4.76             | 4.76             | 4.76             |
|                  | 50°F<br>10.0°C          | TC                                   | 45541            | 46285            | 47831            | 48105            | 49948            | 48216            | 48245            | 48401            | 48464            | 50006            | 50115            | 50180            | 50209            | 50212            | 50438            | 53725            | 53752            | 53882            | 53897            | 53969            |
|                  |                         | S/T                                  | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                  |                         | PI                                   | 4.39             | 4.39             | 4.39             | 4.39             | 4.38             | 4.39             | 4.39             | 4.39             | 4.39             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             | 4.38             |
|                  | 59°F<br>15.0°C          | TC                                   | 44899            | 45980            | 47598            | 47885            | 49812            | 47639            | 47660            | 47897            | 47989            | 49869            | 49617            | 49671            | 49691            | 49693            | 50021            | 53406            | 53421            | 53526            | 53537            | 53590            |
|                  |                         | S/T                                  | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                  |                         | PI                                   | 4.40             | 4.41             | 4.42             | 4.42             | 4.44             | 4.42             | 4.42             | 4.42             | 4.42             | 4.44             | 4.44             | 4.44             | 4.44             | 4.44             | 4.44             | 4.46             | 4.46             | 4.46             | 4.46             | 4.46             |
|                  | 68°F<br>20.0°C          | TC                                   | 44301            | 45730            | 47413            | 47712            | 49718            | 47070            | 47084            | 47453            | 47763            | 49773            | 49118            | 49159            | 49173            | 49174            | 49734            | 53037            | 53055            | 53140            | 53149            | 53187            |
|                  |                         | S/T                                  | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                  |                         | PI                                   | 4.41             | 4.43             | 4.46             | 4.46             | 4.49             | 4.45             | 4.45             | 4.46             | 4.46             | 4.49             | 4.49             | 4.49             | 4.48             | 4.48             | 4.49             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             |
|                  | 77°F<br>25.0°C          | TC                                   | 43619            | 45290            | 47047            | 47359            | 49452            | 46455            | 46477            | 47011            | 47415            | 49510            | 48576            | 48632            | 48655            | 48710            | 49555            | 52610            | 52658            | 52776            | 52789            | 52846            |
|                  |                         | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                         | PI                                   | 4.47             | 4.49             | 4.51             | 4.52             | 4.54             | 4.51             | 4.51             | 4.51             | 4.52             | 4.54             | 4.54             | 4.53             | 4.53             | 4.53             | 4.54             | 4.59             | 4.59             | 4.58             | 4.58             | 4.58             |
|                  | 82°F<br>27.8°C          | TC                                   | 43675            | 45527            | 47341            | 47664            | 49832            | 46558            | 46634            | 47399            | 47722            | 49888            | 48736            | 48801            | 48826            | 48903            | 49933            | 52864            | 52931            | 53063            | 53078            | 53141            |
|                  |                         | S/T                                  | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                  |                         | PI                                   | 4.57             | 4.59             | 4.61             | 4.61             | 4.64             | 4.61             | 4.60             | 4.61             | 4.61             | 4.64             | 4.63             | 4.63             | 4.63             | 4.63             | 4.64             | 4.68             | 4.68             | 4.67             | 4.67             | 4.67             |
|                  | 86°F<br>30.0°C          | TC                                   | 44235            | 46284            | 48162            | 48494            | 50754            | 47156            | 47255            | 48220            | 48552            | 50794            | 49406            | 49464            | 49542            | 49587            | 50841            | 53653            | 53730            | 53856            | 53870            | 53926            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                  |                         | PI                                   | 4.72             | 4.75             | 4.77             | 4.78             | 4.81             | 4.76             | 4.76             | 4.77             | 4.78             | 4.81             | 4.79             | 4.79             | 4.79             | 4.79             | 4.81             | 4.85             | 4.85             | 4.85             | 4.85             | 4.84             |
|                  | 95°F<br>35.0°C          | TC                                   | 46061            | 46143            | 47134            | 47411            | 49270            | 49007            | 49019            | 49036            | 49038            | 49370            | 51123            | 51128            | 51154            | 51159            | 51181            | 55188            | 55169            | 55174            | 55172            | 55213            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 23: COOLING PERFORMANCE 55K - MIXED (Continued)

| AIRFLOW<br>(CFM) | OUTDOOR<br>DB °F<br>/°C | ID WB<br>°F (°C)<br>ID DB<br>°F / °C | 60.8°F(16.0°C)   |                  |                  |                  |                  | 64.4°F(18.0°C)   |                  |                  |                  |                  | 67°F(19.4°C)     |                  |                  |                  |                  | 71.6°F(22.0°C)   |                  |                  |                  |                  |
|------------------|-------------------------|--------------------------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                  |                         |                                      | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                  |                         |                                      |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 2925             | -13°F<br>-25.0°C        | TC                                   | 47691            | 47669            | 48349            | 48550            | 49886            | 49758            | 49718            | 49686            | 49681            | 49640            | 51246            | 51182            | 51134            | 51126            | 51077            | 54055            | 54040            | 53929            | 53909            | 53795            |
|                  |                         | S/T                                  | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.28             | 5.28             | 5.27             | 5.26             | 5.25             | 5.25             | 5.25             | 5.25             | 5.25             | 5.25             | 5.24             | 5.25             | 5.25             | 5.25             | 5.25             | 5.28             | 5.27             | 5.28             | 5.28             | 5.28             |
|                  | -4°F<br>-20.0°C         | TC                                   | 51359            | 51336            | 52068            | 52284            | 53723            | 53586            | 53542            | 53508            | 53503            | 53459            | 55188            | 55119            | 55067            | 55059            | 55006            | 58213            | 58197            | 58077            | 58056            | 57933            |
|                  |                         | S/T                                  | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.47             | 5.47             | 5.46             | 5.45             | 5.44             | 5.44             | 5.44             | 5.44             | 5.44             | 5.44             | 5.43             | 5.43             | 5.44             | 5.44             | 5.44             | 5.46             | 5.46             | 5.46             | 5.46             | 5.47             |
|                  | 0°F<br>-17.8°C          | TC                                   | 53064            | 53033            | 54017            | 54242            | 55732            | 55340            | 55279            | 55236            | 55229            | 55785            | 56966            | 56885            | 56815            | 56807            | 56779            | 60030            | 60016            | 60011            | 60019            | 60058            |
|                  |                         | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 5.52             | 5.52             | 5.51             | 5.51             | 5.52             | 5.51             | 5.51             | 5.51             | 5.51             | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.52             | 5.58             | 5.58             | 5.58             | 5.58             | 5.58             |
|                  | 5°F<br>-15.0°C          | TC                                   | 54585            | 54773            | 56025            | 56284            | 58018            | 57146            | 57160            | 57164            | 57222            | 58075            | 58973            | 58988            | 59000            | 59002            | 59080            | 62432            | 62413            | 62445            | 62452            | 62480            |
|                  |                         | S/T                                  | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 5.56             | 5.56             | 5.57             | 5.57             | 5.60             | 5.58             | 5.58             | 5.58             | 5.58             | 5.60             | 5.62             | 5.62             | 5.62             | 5.62             | 5.63             | 5.74             | 5.74             | 5.74             | 5.75             | 5.75             |
|                  | 14°F<br>-10.0°C         | TC                                   | 55678            | 55650            | 56786            | 57052            | 58821            | 58442            | 58391            | 58351            | 58344            | 58891            | 60445            | 60369            | 60307            | 60298            | 60237            | 64272            | 64252            | 64128            | 64106            | 63969            |
|                  |                         | S/T                                  | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                  |                         | PI                                   | 5.29             | 5.30             | 5.29             | 5.29             | 5.28             | 5.27             | 5.28             | 5.28             | 5.28             | 5.28             | 5.27             | 5.27             | 5.27             | 5.27             | 5.28             | 5.29             | 5.29             | 5.30             | 5.30             | 5.30             |
|                  | 17°F<br>-8.3°C          | TC                                   | 55910            | 56092            | 57388            | 57669            | 59542            | 58693            | 58717            | 58728            | 58777            | 59606            | 60696            | 60719            | 60743            | 60746            | 60821            | 64552            | 64534            | 64524            | 64536            | 64590            |
|                  |                         | S/T                                  | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                  |                         | PI                                   | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.15             | 5.16             | 5.16             | 5.16             | 5.16             | 5.20             | 5.20             | 5.20             | 5.20             | 5.20             |
|                  | 23°F<br>-5.0°C          | TC                                   | 55763            | 56003            | 57452            | 57735            | 59638            | 58587            | 58604            | 58611            | 58687            | 59702            | 60607            | 60628            | 60644            | 60645            | 60743            | 64444            | 64424            | 64470            | 64479            | 64515            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                  |                         | PI                                   | 4.87             | 4.88             | 4.89             | 4.89             | 4.92             | 4.90             | 4.90             | 4.90             | 4.91             | 4.92             | 4.94             | 4.94             | 4.94             | 4.94             | 4.95             | 5.03             | 5.03             | 5.04             | 5.04             | 5.04             |
|                  | 35°F<br>1.7°C           | TC                                   | 55995            | 55996            | 56325            | 56482            | 58304            | 58612            | 58610            | 58615            | 58615            | 58771            | 60447            | 60443            | 60446            | 60447            | 60453            | 63850            | 63835            | 63832            | 63829            | 63835            |
|                  |                         | S/T                                  | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                  |                         | PI                                   | 4.08             | 4.08             | 4.10             | 4.12             | 4.29             | 4.32             | 4.32             | 4.32             | 4.32             | 4.34             | 4.51             | 4.51             | 4.51             | 4.51             | 4.51             | 4.90             | 4.90             | 4.90             | 4.90             | 4.90             |
|                  | 41°F<br>5.0°C           | TC                                   | 56073            | 56073            | 56520            | 56913            | 58595            | 58681            | 58679            | 58683            | 58683            | 58889            | 60512            | 60508            | 60511            | 60512            | 60516            | 63907            | 63891            | 63887            | 63884            | 63891            |
|                  |                         | S/T                                  | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                  |                         | PI                                   | 4.36             | 4.36             | 4.40             | 4.45             | 4.63             | 4.64             | 4.64             | 4.64             | 4.64             | 4.66             | 4.85             | 4.85             | 4.85             | 4.85             | 4.85             | 5.28             | 5.28             | 5.28             | 5.28             | 5.28             |
|                  | 47°F<br>8.3°C           | TC                                   | 56150            | 56187            | 56940            | 57195            | 58887            | 58753            | 58750            | 58752            | 58751            | 59023            | 60577            | 60572            | 60576            | 60576            | 60576            | 63969            | 63953            | 63947            | 63945            | 63951            |
|                  |                         | S/T                                  | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                  |                         | PI                                   | 4.65             | 4.66             | 4.74             | 4.77             | 4.98             | 4.96             | 4.96             | 4.96             | 4.96             | 4.99             | 5.19             | 5.19             | 5.19             | 5.19             | 5.19             | 5.66             | 5.66             | 5.66             | 5.66             | 5.66             |
|                  | 50°F<br>10.0°C          | TC                                   | 54896            | 56407            | 58311            | 58648            | 60922            | 57995            | 58027            | 58428            | 58612            | 60980            | 60257            | 60335            | 60367            | 60371            | 60951            | 64410            | 64581            | 64747            | 64766            | 64848            |
|                  |                         | S/T                                  | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                  |                         | PI                                   | 5.22             | 5.22             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.21             | 5.20             | 5.20             | 5.20             |
|                  | 59°F<br>15.0°C          | TC                                   | 54153            | 56053            | 58042            | 58395            | 60772            | 57297            | 57375            | 58025            | 58458            | 60832            | 59660            | 59720            | 59741            | 59828            | 60882            | 64063            | 64191            | 64319            | 64333            | 64387            |
|                  |                         | S/T                                  | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                  |                         | PI                                   | 5.23             | 5.24             | 5.26             | 5.26             | 5.27             | 5.25             | 5.25             | 5.26             | 5.26             | 5.27             | 5.27             | 5.27             | 5.27             | 5.27             | 5.27             | 5.30             | 5.30             | 5.30             | 5.30             | 5.30             |
|                  | 68°F<br>20.0°C          | TC                                   | 53389            | 55668            | 57732            | 58099            | 60565            | 56521            | 56648            | 57795            | 58162            | 60625            | 58964            | 59009            | 59114            | 59166            | 60675            | 63534            | 63652            | 63752            | 63762            | 63795            |
|                  |                         | S/T                                  | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                  |                         | PI                                   | 5.25             | 5.28             | 5.31             | 5.31             | 5.35             | 5.29             | 5.29             | 5.31             | 5.31             | 5.35             | 5.33             | 5.33             | 5.33             | 5.33             | 5.35             | 5.41             | 5.40             | 5.40             | 5.40             | 5.39             |
|                  | 77°F<br>25.0°C          | TC                                   | 52587            | 55119            | 57276            | 57657            | 60234            | 55749            | 55926            | 57339            | 57722            | 60294            | 58274            | 58339            | 58488            | 58553            | 60345            | 62938            | 63129            | 63275            | 63291            | 63349            |
|                  |                         | S/T                                  | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                  |                         | PI                                   | 5.32             | 5.35             | 5.37             | 5.38             | 5.41             | 5.36             | 5.36             | 5.38             | 5.38             | 5.41             | 5.39             | 5.39             | 5.39             | 5.39             | 5.41             | 5.46             | 5.45             | 5.45             | 5.45             | 5.44             |
|                  | 82°F<br>27.8°C          | TC                                   | 52695            | 55385            | 57619            | 58010            | 60666            | 55841            | 56056            | 57669            | 58075            | 60730            | 58438            | 58512            | 58694            | 58766            | 60783            | 63184            | 63422            | 63587            | 63604            | 63673            |
|                  |                         | S/T                                  | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                  |                         | PI                                   | 5.44             | 5.47             | 5.50             | 5.50             | 5.52             | 5.48             | 5.48             | 5.49             | 5.50             | 5.52             | 5.51             | 5.50             | 5.50             | 5.51             | 5.52             | 5.57             | 5.56             | 5.56             | 5.55             | 5.55             |
|                  | 86°F<br>30.0°C          | TC                                   | 53661            | 56339            | 58644            | 59053            | 61803            | 56590            | 56850            | 58709            | 59120            | 61867            | 59272            | 59340            | 59557            | 59643            | 61920            | 64168            | 64416            | 64569            | 64585            | 64645            |
|                  |                         | S/T                                  | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                  |                         | PI                                   | 5.62             | 5.66             | 5.69             | 5.69             | 5.72             | 5.66             | 5.66             | 5.69             | 5.69             | 5.72             | 5.70             | 5.70             | 5.70             | 5.70             | 5.72             | 5.77             | 5.77             | 5.76             | 5.76             | 5.75             |
|                  | 95°F<br>35.0°C          | TC                                   | 55440            | 55739            | 57541            | 57882            | 60169            | 58921            | 58955            | 58974            | 59043            | 60245            | 61449            | 61462            | 61500            | 61506            | 61608            | 66214            | 66189            | 66203            | 66222            | 66310            |
|                  |                         | S/T                                  | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

# HEATING PERFORMANCE

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| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     | 5050                                | 4949             | 4925             | 3105               | 3077               | 0.85                          | 0.86             | 0.86             | 0.87               | 0.87               |
|                  | -13°F(-25.0°C)                                     | 6616                                | 6484             | 6452             | 3912               | 3877               | 0.91                          | 0.92             | 0.92             | 0.92               | 0.93               |
|                  | -4°F(-20.0°C)                                      | 8168                                | 8005             | 7965             | 4830               | 4786               | 0.97                          | 0.98             | 0.98             | 0.99               | 0.99               |
|                  | 0°F(-17.8°C)                                       | 9233                                | 9048             | 9003             | 5459               | 5410               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 5°F(-15.0°C)                                       | 10564                               | 10353            | 10301            | 6246               | 6190               | 0.94                          | 0.95             | 0.95             | 0.96               | 0.96               |
|                  | 14°F(-10.0°C)                                      | 11183                               | 10959            | 10904            | 6612               | 6552               | 0.96                          | 0.97             | 0.97             | 0.98               | 0.98               |
|                  | 17°F(-8.3°C)                                       | 11389                               | 11161            | 11105            | 6734               | 6673               | 0.97                          | 0.98             | 0.98             | 0.98               | 0.99               |
|                  | 22°F(-5.6°C)                                       | 10923                               | 10704            | 10651            | 6458               | 6400               | 0.97                          | 0.98             | 0.98             | 0.98               | 0.98               |
|                  | 27°F(-2.8°C)                                       | 10456                               | 10247            | 10196            | 6182               | 6127               | 0.96                          | 0.97             | 0.97             | 0.98               | 0.98               |
|                  | 32°F(-0.0°C)                                       | 9990                                | 9790             | 9741             | 5907               | 5853               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 35°F(1.7°C)                                        | 9710                                | 9516             | 9469             | 5741               | 5690               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 37°F(2.8°C)                                        | 10809                               | 10593            | 10540            | 6391               | 6333               | 0.96                          | 0.96             | 0.97             | 0.97               | 0.97               |
|                  | 42°F(5.6°C)                                        | 13556                               | 13285            | 13219            | 8015               | 7943               | 0.94                          | 0.95             | 0.95             | 0.96               | 0.96               |
|                  | 44.6°F(7.0°C)                                      | 14655                               | 14362            | 14290            | 8665               | 8587               | 0.94                          | 0.95             | 0.95             | 0.95               | 0.95               |
|                  | 47°F(8.3°C)                                        | 16303                               | 15977            | 15897            | 9639               | 9553               | 0.93                          | 0.94             | 0.94             | 0.94               | 0.95               |
|                  | 52°F(11.1°C)                                       | 16027                               | 15707            | 15628            | 9476               | 9391               | 0.86                          | 0.87             | 0.87             | 0.87               | 0.87               |
|                  | 57°F(13.9°C)                                       | 15751                               | 15436            | 15359            | 9312               | 9229               | 0.79                          | 0.79             | 0.80             | 0.80               | 0.80               |
|                  | 59°F(15.0°C)                                       | 15640                               | 15327            | 15251            | 9247               | 9164               | 0.76                          | 0.77             | 0.77             | 0.77               | 0.77               |
|                  | 62°F(16.7°C)                                       | 15474                               | 15165            | 15089            | 9149               | 9067               | 0.72                          | 0.72             | 0.72             | 0.72               | 0.73               |
|                  | 64.4°F(18.0°C)                                     | 15342                               | 15035            | 14960            | 9071               | 8989               | 0.68                          | 0.69             | 0.69             | 0.69               | 0.69               |
| 69.8°F(21.0°C)   | 13408                                              | 13140                               | 13074            | 7927             | 7856               | 0.60               | 0.61                          | 0.61             | 0.61             | 0.61               |                    |
| 75.2°F(24.0°C)   | 11603                                              | 11371                               | 11314            | 6860             | 6798               | 0.52               | 0.53                          | 0.53             | 0.53             | 0.53               |                    |
| 688              | -22°F(-30.0°C)                                     | 5702                                | 5588             | 5560             | 4406               | 4367               | 1.07                          | 1.08             | 1.08             | 1.08               | 1.09               |
|                  | -13°F(-25.0°C)                                     | 7325                                | 7179             | 7143             | 5551               | 5501               | 1.14                          | 1.15             | 1.15             | 1.15               | 1.16               |
|                  | -4°F(-20.0°C)                                      | 9044                                | 8863             | 8818             | 6853               | 6791               | 1.22                          | 1.23             | 1.23             | 1.23               | 1.24               |
|                  | 0°F(-17.8°C)                                       | 10222                               | 10018            | 9968             | 7746               | 7676               | 1.20                          | 1.21             | 1.21             | 1.21               | 1.22               |
|                  | 5°F(-15.0°C)                                       | 11696                               | 11462            | 11404            | 8863               | 8783               | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 14°F(-10.0°C)                                      | 12381                               | 12133            | 12072            | 9382               | 9297               | 1.20                          | 1.21             | 1.22             | 1.22               | 1.22               |
|                  | 17°F(-8.3°C)                                       | 12609                               | 12357            | 12295            | 9555               | 9469               | 1.21                          | 1.22             | 1.22             | 1.23               | 1.23               |
|                  | 22°F(-5.6°C)                                       | 12093                               | 11851            | 11792            | 9164               | 9081               | 1.21                          | 1.22             | 1.22             | 1.22               | 1.23               |
|                  | 27°F(-2.8°C)                                       | 11577                               | 11345            | 11288            | 8772               | 8693               | 1.21                          | 1.22             | 1.22             | 1.22               | 1.23               |
|                  | 32°F(-0.0°C)                                       | 11060                               | 10839            | 10785            | 8381               | 8306               | 1.20                          | 1.21             | 1.21             | 1.22               | 1.22               |
|                  | 35°F(1.7°C)                                        | 10751                               | 10536            | 10483            | 8147               | 8073               | 1.20                          | 1.21             | 1.21             | 1.21               | 1.22               |
|                  | 37°F(2.8°C)                                        | 11967                               | 11728            | 11669            | 9068               | 8987               | 1.19                          | 1.20             | 1.21             | 1.21               | 1.21               |
|                  | 42°F(5.6°C)                                        | 15009                               | 14709            | 14635            | 11373              | 11271              | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 44.6°F(7.0°C)                                      | 16225                               | 15901            | 15821            | 12295              | 12184              | 1.17                          | 1.18             | 1.19             | 1.19               | 1.19               |
|                  | 47°F(8.3°C)                                        | 18050                               | 17689            | 17601            | 13678              | 13555              | 1.17                          | 1.18             | 1.18             | 1.18               | 1.18               |
|                  | 52°F(11.1°C)                                       | 17744                               | 17389            | 17302            | 13446              | 13325              | 1.08                          | 1.08             | 1.09             | 1.09               | 1.09               |
|                  | 57°F(13.9°C)                                       | 17438                               | 17089            | 17004            | 13214              | 13095              | 0.99                          | 0.99             | 0.99             | 1.00               | 1.00               |
|                  | 59°F(15.0°C)                                       | 17316                               | 16969            | 16885            | 13121              | 13003              | 0.95                          | 0.96             | 0.96             | 0.96               | 0.96               |
|                  | 62°F(16.7°C)                                       | 17132                               | 16790            | 16706            | 12982              | 12865              | 0.89                          | 0.90             | 0.90             | 0.91               | 0.91               |
|                  | 64.4°F(18.0°C)                                     | 16985                               | 16646            | 16562            | 12871              | 12755              | 0.85                          | 0.86             | 0.86             | 0.86               | 0.86               |
| 69.8°F(21.0°C)   | 14844                                              | 14547                               | 14475            | 11249            | 11147              | 0.75               | 0.76                          | 0.76             | 0.76             | 0.77               |                    |
| 75.2°F(24.0°C)   | 12846                                              | 12589                               | 12526            | 9734             | 9647               | 0.66               | 0.66                          | 0.66             | 0.66             | 0.67               |                    |

**Table 24: HEATING PERFORMANCE 18K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     | 6438                                | 6309             | 6278             | 6253               | 6196               | 1.26                          | 1.27             | 1.27             | 1.27               | 1.28               |
|                  | -13°F(-25.0°C)                                     | 8110                                | 7948             | 7908             | 7876               | 7805               | 1.34                          | 1.35             | 1.35             | 1.36               | 1.36               |
|                  | -4°F(-20.0°C)                                      | 10013                               | 9812             | 9763             | 9724               | 9637               | 1.43                          | 1.44             | 1.45             | 1.45               | 1.45               |
|                  | 0°F(-17.8°C)                                       | 11317                               | 11091            | 11036            | 10992              | 10893              | 1.41                          | 1.42             | 1.43             | 1.43               | 1.43               |
|                  | 5°F(-15.0°C)                                       | 12949                               | 12690            | 12626            | 12576              | 12463              | 1.39                          | 1.40             | 1.40             | 1.40               | 1.41               |
|                  | 14°F(-10.0°C)                                      | 13707                               | 13433            | 13366            | 13312              | 13193              | 1.42                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 17°F(-8.3°C)                                       | 13960                               | 13681            | 13612            | 13558              | 13436              | 1.43                          | 1.44             | 1.44             | 1.44               | 1.45               |
|                  | 22°F(-5.6°C)                                       | 13388                               | 13121            | 13055            | 13003              | 12886              | 1.42                          | 1.43             | 1.44             | 1.44               | 1.45               |
|                  | 27°F(-2.8°C)                                       | 12817                               | 12561            | 12498            | 12448              | 12336              | 1.42                          | 1.43             | 1.43             | 1.44               | 1.44               |
|                  | 32°F(-0.0°C)                                       | 12245                               | 12001            | 11941            | 11893              | 11786              | 1.41                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 35°F(1.7°C)                                        | 11903                               | 11664            | 11606            | 11560              | 11456              | 1.41                          | 1.42             | 1.43             | 1.43               | 1.43               |
|                  | 37°F(2.8°C)                                        | 13249                               | 12984            | 12920            | 12868              | 12752              | 1.41                          | 1.42             | 1.42             | 1.42               | 1.43               |
|                  | 42°F(5.6°C)                                        | 16617                               | 16284            | 16203            | 16138              | 15993              | 1.39                          | 1.40             | 1.40             | 1.41               | 1.41               |
|                  | 44.6°F(7.0°C)                                      | 17964                               | 17604            | 17516            | 17446              | 17289              | 1.38                          | 1.39             | 1.40             | 1.40               | 1.40               |
|                  | 47°F(8.3°C)                                        | 19984                               | 19584            | 19486            | 19408              | 19234              | 1.37                          | 1.38             | 1.39             | 1.39               | 1.39               |
|                  | 52°F(11.1°C)                                       | 19645                               | 19252            | 19156            | 19079              | 18908              | 1.27                          | 1.28             | 1.28             | 1.28               | 1.29               |
|                  | 57°F(13.9°C)                                       | 19306                               | 18920            | 18826            | 18750              | 18582              | 1.16                          | 1.17             | 1.17             | 1.17               | 1.18               |
|                  | 59°F(15.0°C)                                       | 19171                               | 18788            | 18694            | 18619              | 18451              | 1.12                          | 1.13             | 1.13             | 1.13               | 1.13               |
|                  | 62°F(16.7°C)                                       | 18968                               | 18588            | 18495            | 18421              | 18256              | 1.05                          | 1.06             | 1.06             | 1.07               | 1.07               |
|                  | 64.4°F(18.0°C)                                     | 18805                               | 18429            | 18337            | 18264              | 18099              | 1.00                          | 1.01             | 1.01             | 1.01               | 1.02               |
|                  | 69.8°F(21.0°C)                                     | 16435                               | 16106            | 16025            | 15961              | 15818              | 0.89                          | 0.89             | 0.90             | 0.90               | 0.90               |
|                  | 75.2°F(24.0°C)                                     | 14222                               | 13938            | 13868            | 13813              | 13688              | 0.77                          | 0.78             | 0.78             | 0.78               | 0.78               |
| 1147             | -22°F(-30.0°C)                                     | 7128                                | 6985             | 6950             | 6922               | 6860               | 1.48                          | 1.49             | 1.49             | 1.50               | 1.50               |
|                  | -13°F(-25.0°C)                                     | 8979                                | 8799             | 8755             | 8720               | 8642               | 1.58                          | 1.59             | 1.59             | 1.60               | 1.60               |
|                  | -4°F(-20.0°C)                                      | 11085                               | 10864            | 10809            | 10766              | 10669              | 1.68                          | 1.70             | 1.70             | 1.70               | 1.71               |
|                  | 0°F(-17.8°C)                                       | 12530                               | 12279            | 12218            | 12169              | 12060              | 1.66                          | 1.67             | 1.68             | 1.68               | 1.69               |
|                  | 5°F(-15.0°C)                                       | 14336                               | 14049            | 13979            | 13923              | 13798              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 14°F(-10.0°C)                                      | 15176                               | 14872            | 14798            | 14739              | 14606              | 1.67                          | 1.68             | 1.68             | 1.69               | 1.69               |
|                  | 17°F(-8.3°C)                                       | 15456                               | 15147            | 15071            | 15011              | 14875              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 22°F(-5.6°C)                                       | 14823                               | 14526            | 14454            | 14396              | 14266              | 1.67                          | 1.69             | 1.69             | 1.69               | 1.70               |
|                  | 27°F(-2.8°C)                                       | 14190                               | 13906            | 13837            | 13781              | 13657              | 1.67                          | 1.68             | 1.69             | 1.69               | 1.70               |
|                  | 32°F(-0.0°C)                                       | 13557                               | 13286            | 13220            | 13167              | 13048              | 1.66                          | 1.68             | 1.68             | 1.68               | 1.69               |
|                  | 35°F(1.7°C)                                        | 13178                               | 12914            | 12850            | 12798              | 12683              | 1.66                          | 1.67             | 1.68             | 1.68               | 1.69               |
|                  | 37°F(2.8°C)                                        | 14669                               | 14376            | 14304            | 14246              | 14118              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |
|                  | 42°F(5.6°C)                                        | 18397                               | 18029            | 17939            | 17867              | 17706              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 44.6°F(7.0°C)                                      | 19888                               | 19490            | 19393            | 19315              | 19142              | 1.63                          | 1.64             | 1.64             | 1.65               | 1.65               |
|                  | 47°F(8.3°C)                                        | 22125                               | 21682            | 21574            | 21488              | 21294              | 1.61                          | 1.63             | 1.63             | 1.63               | 1.64               |
|                  | 52°F(11.1°C)                                       | 21750                               | 21315            | 21208            | 21124              | 20933              | 1.49                          | 1.50             | 1.50             | 1.51               | 1.51               |
|                  | 57°F(13.9°C)                                       | 21375                               | 20947            | 20843            | 20759              | 20572              | 1.36                          | 1.37             | 1.38             | 1.38               | 1.39               |
|                  | 59°F(15.0°C)                                       | 21225                               | 20800            | 20696            | 20614              | 20428              | 1.31                          | 1.32             | 1.33             | 1.33               | 1.33               |
|                  | 62°F(16.7°C)                                       | 21000                               | 20580            | 20477            | 20395              | 20211              | 1.24                          | 1.25             | 1.25             | 1.25               | 1.26               |
|                  | 64.4°F(18.0°C)                                     | 20820                               | 20403            | 20301            | 20220              | 20038              | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 69.8°F(21.0°C)                                     | 18195                               | 17832            | 17742            | 17671              | 17512              | 1.04                          | 1.05             | 1.05             | 1.06               | 1.06               |
|                  | 75.2°F(24.0°C)                                     | 15746                               | 15431            | 15354            | 15293              | 15155              | 0.91                          | 0.92             | 0.92             | 0.92               | 0.92               |

**Table 25: HEATING PERFORMANCE 24K - NON-DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 7722                                | 7568             | 7530             | 4924               | 4879               | 1.08                          | 1.09             | 1.09             | 1.09               | 1.10               |
|                  | -4°F(-20.0°C)                                      | 7923                                | 7764             | 7725             | 5051               | 5006               | 1.05                          | 1.06             | 1.07             | 1.07               | 1.07               |
|                  | 0°F(-17.8°C)                                       | 10089                               | 9887             | 9838             | 6433               | 6375               | 1.09                          | 1.10             | 1.10             | 1.10               | 1.11               |
|                  | 5°F(-15.0°C)                                       | 12797                               | 12541            | 12478            | 8159               | 8086               | 1.13                          | 1.14             | 1.14             | 1.14               | 1.15               |
|                  | 14°F(-10.0°C)                                      | 12571                               | 12320            | 12258            | 8015               | 7943               | 1.15                          | 1.16             | 1.16             | 1.16               | 1.17               |
|                  | 17°F(-8.3°C)                                       | 12496                               | 12246            | 12185            | 7968               | 7896               | 1.15                          | 1.16             | 1.17             | 1.17               | 1.17               |
|                  | 22°F(-5.6°C)                                       | 12444                               | 12195            | 12134            | 7934               | 7863               | 1.12                          | 1.13             | 1.13             | 1.13               | 1.14               |
|                  | 27°F(-2.8°C)                                       | 12392                               | 12144            | 12084            | 7901               | 7830               | 1.08                          | 1.09             | 1.09             | 1.09               | 1.10               |
|                  | 32°F(0.0°C)                                        | 12340                               | 12093            | 12033            | 7868               | 7797               | 1.05                          | 1.05             | 1.06             | 1.06               | 1.06               |
|                  | 35°F(1.7°C)                                        | 12309                               | 12063            | 12002            | 7848               | 7778               | 1.02                          | 1.03             | 1.03             | 1.04               | 1.04               |
|                  | 37°F(2.8°C)                                        | 13708                               | 13434            | 13367            | 8740               | 8662               | 1.04                          | 1.04             | 1.05             | 1.05               | 1.05               |
|                  | 42°F(5.6°C)                                        | 17207                               | 16862            | 16778            | 10971              | 10872              | 1.07                          | 1.07             | 1.08             | 1.08               | 1.08               |
|                  | 44.6°F(7.0°C)                                      | 18606                               | 18234            | 18143            | 11863              | 11756              | 1.08                          | 1.09             | 1.09             | 1.09               | 1.09               |
|                  | 47°F(8.3°C)                                        | 20705                               | 20291            | 20189            | 13201              | 13083              | 1.09                          | 1.10             | 1.11             | 1.11               | 1.11               |
|                  | 52°F(11.1°C)                                       | 20444                               | 20035            | 19935            | 13035              | 12917              | 0.99                          | 1.00             | 1.00             | 1.01               | 1.01               |
|                  | 57°F(13.9°C)                                       | 20182                               | 19779            | 19680            | 12868              | 12752              | 0.90                          | 0.90             | 0.90             | 0.91               | 0.91               |
|                  | 59°F(15.0°C)                                       | 20078                               | 19676            | 19578            | 12802              | 12686              | 0.86                          | 0.86             | 0.86             | 0.87               | 0.87               |
|                  | 62°F(16.7°C)                                       | 19921                               | 19523            | 19425            | 12702              | 12587              | 0.80                          | 0.80             | 0.80             | 0.80               | 0.81               |
|                  | 64.4°F(18.0°C)                                     | 19796                               | 19400            | 19303            | 12622              | 12508              | 0.75                          | 0.75             | 0.75             | 0.76               | 0.76               |
|                  | 69.8°F(21.0°C)                                     | 19514                               | 19123            | 19028            | 12442              | 12330              | 0.64                          | 0.64             | 0.65             | 0.65               | 0.65               |
|                  | 75.2°F(24.0°C)                                     | 19231                               | 18847            | 18753            | 12262              | 12152              | 0.53                          | 0.54             | 0.54             | 0.54               | 0.54               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 8878                                | 8701             | 8657             | 6987               | 6924               | 1.44                          | 1.45             | 1.46             | 1.46               | 1.46               |
|                  | -4°F(-20.0°C)                                      | 9109                                | 8927             | 8882             | 7168               | 7103               | 1.41                          | 1.42             | 1.42             | 1.42               | 1.43               |
|                  | 0°F(-17.8°C)                                       | 11599                               | 11367            | 11311            | 9128               | 9046               | 1.45                          | 1.46             | 1.47             | 1.47               | 1.47               |
|                  | 5°F(-15.0°C)                                       | 14713                               | 14419            | 14346            | 11578              | 11474              | 1.51                          | 1.52             | 1.52             | 1.52               | 1.53               |
|                  | 14°F(-10.0°C)                                      | 14454                               | 14164            | 14094            | 11374              | 11271              | 1.53                          | 1.54             | 1.55             | 1.55               | 1.55               |
|                  | 17°F(-8.3°C)                                       | 14367                               | 14080            | 14009            | 11306              | 11204              | 1.54                          | 1.55             | 1.55             | 1.56               | 1.56               |
|                  | 22°F(-5.6°C)                                       | 14307                               | 14021            | 13951            | 11259              | 11157              | 1.49                          | 1.50             | 1.51             | 1.51               | 1.51               |
|                  | 27°F(-2.8°C)                                       | 14248                               | 13963            | 13893            | 11212              | 11111              | 1.44                          | 1.45             | 1.46             | 1.46               | 1.47               |
|                  | 32°F(0.0°C)                                        | 14188                               | 13904            | 13834            | 11165              | 11064              | 1.39                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 35°F(1.7°C)                                        | 14152                               | 13869            | 13799            | 11136              | 11036              | 1.37                          | 1.38             | 1.38             | 1.38               | 1.39               |
|                  | 37°F(2.8°C)                                        | 15761                               | 15445            | 15368            | 12402              | 12291              | 1.38                          | 1.39             | 1.40             | 1.40               | 1.40               |
|                  | 42°F(5.6°C)                                        | 19783                               | 19387            | 19290            | 15567              | 15427              | 1.42                          | 1.43             | 1.43             | 1.44               | 1.44               |
|                  | 44.6°F(7.0°C)                                      | 21392                               | 20964            | 20859            | 16833              | 16682              | 1.44                          | 1.45             | 1.45             | 1.45               | 1.46               |
|                  | 47°F(8.3°C)                                        | 23805                               | 23329            | 23212            | 18732              | 18564              | 1.46                          | 1.47             | 1.47             | 1.48               | 1.48               |
|                  | 52°F(11.1°C)                                       | 23504                               | 23034            | 22919            | 18496              | 18330              | 1.33                          | 1.34             | 1.34             | 1.34               | 1.35               |
|                  | 57°F(13.9°C)                                       | 23204                               | 22740            | 22626            | 18260              | 18095              | 1.19                          | 1.20             | 1.21             | 1.21               | 1.21               |
|                  | 59°F(15.0°C)                                       | 23084                               | 22622            | 22509            | 18165              | 18002              | 1.14                          | 1.15             | 1.15             | 1.15               | 1.16               |
|                  | 62°F(16.7°C)                                       | 22904                               | 22446            | 22333            | 18023              | 17861              | 1.06                          | 1.07             | 1.07             | 1.07               | 1.08               |
|                  | 64.4°F(18.0°C)                                     | 22760                               | 22304            | 22193            | 17910              | 17749              | 1.00                          | 1.00             | 1.01             | 1.01               | 1.01               |
|                  | 69.8°F(21.0°C)                                     | 22435                               | 21986            | 21877            | 17655              | 17496              | 0.85                          | 0.86             | 0.86             | 0.86               | 0.87               |
|                  | 75.2°F(24.0°C)                                     | 22111                               | 21669            | 21560            | 17399              | 17243              | 0.71                          | 0.72             | 0.72             | 0.72               | 0.72               |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 25: HEATING PERFORMANCE 24K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10208                               | 10004            | 9954             | 9914               | 9825               | 1.80                          | 1.82             | 1.82             | 1.82               | 1.83               |
|                  | -4°F(-20.0°C)                                      | 10473                               | 10263            | 10212            | 10171              | 10079              | 1.76                          | 1.77             | 1.78             | 1.78               | 1.79               |
|                  | 0°F(-17.8°C)                                       | 13336                               | 13069            | 13004            | 12952              | 12835              | 1.81                          | 1.83             | 1.83             | 1.84               | 1.84               |
|                  | 5°F(-15.0°C)                                       | 16916                               | 16577            | 16494            | 16428              | 16281              | 1.88                          | 1.90             | 1.90             | 1.91               | 1.91               |
|                  | 14°F(-10.0°C)                                      | 16617                               | 16285            | 16204            | 16139              | 15994              | 1.91                          | 1.93             | 1.93             | 1.94               | 1.94               |
|                  | 17°F(-8.3°C)                                       | 16518                               | 16188            | 16107            | 16042              | 15898              | 1.92                          | 1.94             | 1.94             | 1.95               | 1.95               |
|                  | 22°F(-5.6°C)                                       | 16449                               | 16120            | 16040            | 15976              | 15832              | 1.86                          | 1.88             | 1.88             | 1.89               | 1.89               |
|                  | 27°F(-2.8°C)                                       | 16381                               | 16053            | 15973            | 15909              | 15766              | 1.80                          | 1.82             | 1.82             | 1.82               | 1.83               |
|                  | 32°F(0.0°C)                                        | 16312                               | 15986            | 15906            | 15842              | 15700              | 1.74                          | 1.76             | 1.76             | 1.76               | 1.77               |
|                  | 35°F(1.7°C)                                        | 16271                               | 15945            | 15866            | 15802              | 15660              | 1.71                          | 1.72             | 1.72             | 1.73               | 1.73               |
|                  | 37°F(2.8°C)                                        | 18120                               | 17758            | 17669            | 17598              | 17440              | 1.73                          | 1.74             | 1.74             | 1.75               | 1.75               |
|                  | 42°F(5.6°C)                                        | 22745                               | 22290            | 22178            | 22090              | 21891              | 1.78                          | 1.79             | 1.79             | 1.80               | 1.80               |
|                  | 44.6°F(7.0°C)                                      | 24594                               | 24102            | 23982            | 23886              | 23671              | 1.79                          | 1.81             | 1.81             | 1.82               | 1.82               |
|                  | 47°F(8.3°C)                                        | 27369                               | 26821            | 26687            | 26581              | 26341              | 1.82                          | 1.84             | 1.84             | 1.85               | 1.85               |
|                  | 52°F(11.1°C)                                       | 27024                               | 26483            | 26351            | 26245              | 26009              | 1.66                          | 1.67             | 1.67             | 1.68               | 1.68               |
|                  | 57°F(13.9°C)                                       | 26678                               | 26145            | 26014            | 25910              | 25677              | 1.49                          | 1.50             | 1.51             | 1.51               | 1.52               |
|                  | 59°F(15.0°C)                                       | 26540                               | 26009            | 25879            | 25776              | 25544              | 1.43                          | 1.44             | 1.44             | 1.44               | 1.45               |
|                  | 62°F(16.7°C)                                       | 26333                               | 25806            | 25677            | 25574              | 25344              | 1.33                          | 1.34             | 1.34             | 1.34               | 1.35               |
|                  | 64.4°F(18.0°C)                                     | 26167                               | 25644            | 25516            | 25413              | 25185              | 1.25                          | 1.26             | 1.26             | 1.26               | 1.27               |
|                  | 69.8°F(21.0°C)                                     | 25794                               | 25278            | 25152            | 25051              | 24826              | 1.07                          | 1.07             | 1.08             | 1.08               | 1.08               |
|                  | 75.2°F(24.0°C)                                     | 25421                               | 24913            | 24788            | 24689              | 24467              | 0.89                          | 0.89             | 0.90             | 0.90               | 0.90               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 11736                               | 11501            | 11444            | 11398              | 11295              | 2.25                          | 2.27             | 2.27             | 2.28               | 2.29               |
|                  | -4°F(-20.0°C)                                      | 12041                               | 11800            | 11741            | 11694              | 11588              | 2.20                          | 2.22             | 2.22             | 2.22               | 2.23               |
|                  | 0°F(-17.8°C)                                       | 15333                               | 15026            | 14951            | 14891              | 14757              | 2.27                          | 2.29             | 2.29             | 2.29               | 2.30               |
|                  | 5°F(-15.0°C)                                       | 19448                               | 19059            | 18964            | 18888              | 18718              | 2.35                          | 2.37             | 2.38             | 2.38               | 2.39               |
|                  | 14°F(-10.0°C)                                      | 19105                               | 18723            | 18630            | 18555              | 18388              | 2.39                          | 2.41             | 2.41             | 2.42               | 2.43               |
|                  | 17°F(-8.3°C)                                       | 18991                               | 18611            | 18518            | 18444              | 18278              | 2.40                          | 2.42             | 2.43             | 2.43               | 2.44               |
|                  | 22°F(-5.6°C)                                       | 18912                               | 18534            | 18441            | 18367              | 18202              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 27°F(-2.8°C)                                       | 18833                               | 18456            | 18364            | 18291              | 18126              | 2.25                          | 2.27             | 2.28             | 2.28               | 2.29               |
|                  | 32°F(0.0°C)                                        | 18754                               | 18379            | 18287            | 18214              | 18050              | 2.18                          | 2.20             | 2.20             | 2.21               | 2.21               |
|                  | 35°F(1.7°C)                                        | 18707                               | 18333            | 18241            | 18168              | 18004              | 2.13                          | 2.15             | 2.16             | 2.16               | 2.17               |
|                  | 37°F(2.8°C)                                        | 20833                               | 20417            | 20315            | 20233              | 20051              | 2.16                          | 2.18             | 2.18             | 2.18               | 2.19               |
|                  | 42°F(5.6°C)                                        | 26150                               | 25627            | 25499            | 25397              | 25168              | 2.22                          | 2.24             | 2.24             | 2.25               | 2.26               |
|                  | 44.6°F(7.0°C)                                      | 28277                               | 27711            | 27572            | 27462              | 27215              | 2.24                          | 2.26             | 2.27             | 2.27               | 2.28               |
|                  | 47°F(8.3°C)                                        | 31466                               | 30837            | 30683            | 30560              | 30285              | 2.28                          | 2.30             | 2.30             | 2.31               | 2.32               |
|                  | 52°F(11.1°C)                                       | 31069                               | 30448            | 30296            | 30175              | 29903              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 57°F(13.9°C)                                       | 30672                               | 30059            | 29909            | 29789              | 29521              | 1.86                          | 1.88             | 1.88             | 1.89               | 1.89               |
|                  | 59°F(15.0°C)                                       | 30514                               | 29903            | 29754            | 29635              | 29368              | 1.78                          | 1.80             | 1.80             | 1.80               | 1.81               |
|                  | 62°F(16.7°C)                                       | 30275                               | 29670            | 29522            | 29403              | 29139              | 1.66                          | 1.67             | 1.67             | 1.68               | 1.68               |
|                  | 64.4°F(18.0°C)                                     | 30085                               | 29483            | 29336            | 29218              | 28955              | 1.56                          | 1.57             | 1.57             | 1.58               | 1.58               |
|                  | 69.8°F(21.0°C)                                     | 29656                               | 29063            | 28918            | 28802              | 28543              | 1.33                          | 1.34             | 1.35             | 1.35               | 1.35               |
|                  | 75.2°F(24.0°C)                                     | 29227                               | 28643            | 28499            | 28385              | 28130              | 1.11                          | 1.12             | 1.12             | 1.12               | 1.13               |

**Table 26: HEATING PERFORMANCE 30K - NON-DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 9887                                | 9690             | 9641             | 6587               | 6528               | 1.60                          | 1.62             | 1.62             | 1.62               | 1.63               |
|                  | -4°F(-20.0°C)                                      | 13013                               | 12753            | 12689            | 8670               | 8592               | 1.73                          | 1.75             | 1.75             | 1.76               | 1.76               |
|                  | 0°F(-17.8°C)                                       | 14318                               | 14031            | 13961            | 9539               | 9453               | 1.74                          | 1.76             | 1.76             | 1.76               | 1.77               |
|                  | 5°F(-15.0°C)                                       | 15949                               | 15630            | 15551            | 10626              | 10530              | 1.75                          | 1.77             | 1.77             | 1.77               | 1.78               |
|                  | 14°F(-10.0°C)                                      | 17287                               | 16941            | 16857            | 11518              | 11414              | 1.84                          | 1.85             | 1.86             | 1.86               | 1.87               |
|                  | 17°F(-8.3°C)                                       | 17733                               | 17379            | 17292            | 11815              | 11708              | 1.87                          | 1.88             | 1.89             | 1.89               | 1.90               |
|                  | 22°F(-5.6°C)                                       | 18582                               | 18211            | 18120            | 12380              | 12269              | 1.80                          | 1.81             | 1.81             | 1.82               | 1.83               |
|                  | 27°F(-2.8°C)                                       | 19431                               | 19043            | 18948            | 12946              | 12830              | 1.73                          | 1.74             | 1.74             | 1.75               | 1.75               |
|                  | 32°F(-0.0°C)                                       | 20280                               | 19875            | 19775            | 13512              | 13390              | 1.66                          | 1.67             | 1.67             | 1.68               | 1.68               |
|                  | 35°F(1.7°C)                                        | 20790                               | 20374            | 20272            | 13851              | 13727              | 1.61                          | 1.63             | 1.63             | 1.63               | 1.64               |
|                  | 37°F(2.8°C)                                        | 21890                               | 21452            | 21345            | 14584              | 14453              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |
|                  | 42°F(5.6°C)                                        | 24641                               | 24148            | 24028            | 16417              | 16269              | 1.75                          | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 44.6°F(7.0°C)                                      | 25742                               | 25227            | 25101            | 17150              | 16996              | 1.79                          | 1.80             | 1.80             | 1.81               | 1.82               |
|                  | 47°F(8.3°C)                                        | 27392                               | 26844            | 26710            | 18250              | 18086              | 1.84                          | 1.86             | 1.86             | 1.87               | 1.87               |
|                  | 52°F(11.1°C)                                       | 28249                               | 27684            | 27546            | 18821              | 18651              | 1.75                          | 1.76             | 1.76             | 1.77               | 1.77               |
|                  | 57°F(13.9°C)                                       | 29106                               | 28524            | 28381            | 19392              | 19217              | 1.65                          | 1.66             | 1.66             | 1.67               | 1.67               |
|                  | 59°F(15.0°C)                                       | 29449                               | 28860            | 28715            | 19620              | 19444              | 1.61                          | 1.62             | 1.62             | 1.63               | 1.63               |
|                  | 62°F(16.7°C)                                       | 29963                               | 29364            | 29217            | 19963              | 19783              | 1.55                          | 1.56             | 1.56             | 1.57               | 1.57               |
|                  | 64.4°F(18.0°C)                                     | 30374                               | 29767            | 29618            | 20237              | 20055              | 1.50                          | 1.51             | 1.52             | 1.52               | 1.53               |
|                  | 69.8°F(21.0°C)                                     | 31299                               | 30674            | 30520            | 20853              | 20666              | 1.40                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 75.2°F(24.0°C)                                     | 32225                               | 31580            | 31423            | 21470              | 21277              | 1.29                          | 1.30             | 1.30             | 1.31               | 1.31               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 11620                               | 11388            | 11331            | 9347               | 9263               | 2.06                          | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | -4°F(-20.0°C)                                      | 15294                               | 14988            | 14913            | 12302              | 12191              | 2.22                          | 2.24             | 2.25             | 2.25               | 2.26               |
|                  | 0°F(-17.8°C)                                       | 16827                               | 16490            | 16408            | 13536              | 13414              | 2.23                          | 2.25             | 2.26             | 2.26               | 2.27               |
|                  | 5°F(-15.0°C)                                       | 18744                               | 18369            | 18277            | 15078              | 14942              | 2.25                          | 2.26             | 2.27             | 2.27               | 2.28               |
|                  | 14°F(-10.0°C)                                      | 20317                               | 19911            | 19811            | 16343              | 16196              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.39               |
|                  | 17°F(-8.3°C)                                       | 20841                               | 20425            | 20322            | 16765              | 16614              | 2.39                          | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 22°F(-5.6°C)                                       | 21839                               | 21402            | 21295            | 17568              | 17409              | 2.30                          | 2.32             | 2.33             | 2.33               | 2.34               |
|                  | 27°F(-2.8°C)                                       | 22837                               | 22380            | 22268            | 18370              | 18205              | 2.21                          | 2.23             | 2.24             | 2.24               | 2.25               |
|                  | 32°F(-0.0°C)                                       | 23835                               | 23358            | 23241            | 19173              | 19000              | 2.12                          | 2.14             | 2.14             | 2.15               | 2.16               |
|                  | 35°F(1.7°C)                                        | 24434                               | 23945            | 23825            | 19654              | 19478              | 2.07                          | 2.09             | 2.09             | 2.09               | 2.10               |
|                  | 37°F(2.8°C)                                        | 25727                               | 25212            | 25086            | 20695              | 20508              | 2.12                          | 2.14             | 2.14             | 2.14               | 2.15               |
|                  | 42°F(5.6°C)                                        | 28960                               | 28381            | 28239            | 23295              | 23086              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.28               |
|                  | 44.6°F(7.0°C)                                      | 30253                               | 29648            | 29500            | 24336              | 24117              | 2.29                          | 2.31             | 2.31             | 2.32               | 2.33               |
|                  | 47°F(8.3°C)                                        | 32193                               | 31549            | 31392            | 25896              | 25663              | 2.36                          | 2.38             | 2.39             | 2.39               | 2.40               |
|                  | 52°F(11.1°C)                                       | 33200                               | 32536            | 32373            | 26706              | 26466              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.27               |
|                  | 57°F(13.9°C)                                       | 34207                               | 33523            | 33355            | 27516              | 27269              | 2.11                          | 2.13             | 2.13             | 2.14               | 2.15               |
|                  | 59°F(15.0°C)                                       | 34610                               | 33918            | 33748            | 27840              | 27590              | 2.06                          | 2.08             | 2.08             | 2.09               | 2.10               |
|                  | 62°F(16.7°C)                                       | 35214                               | 34510            | 34337            | 28326              | 28071              | 1.99                          | 2.00             | 2.01             | 2.01               | 2.02               |
|                  | 64.4°F(18.0°C)                                     | 35698                               | 34984            | 34809            | 28715              | 28457              | 1.93                          | 1.94             | 1.95             | 1.95               | 1.96               |
|                  | 69.8°F(21.0°C)                                     | 36785                               | 36050            | 35869            | 29590              | 29324              | 1.79                          | 1.80             | 1.81             | 1.81               | 1.82               |
|                  | 75.2°F(24.0°C)                                     | 37873                               | 37115            | 36930            | 30465              | 30191              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 26: HEATING PERFORMANCE 30K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 13657                               | 13384            | 13317            | 13264              | 13144              | 2.60                          | 2.63             | 2.63             | 2.64               | 2.65               |
|                  | -4°F(-20.0°C)                                      | 17974                               | 17614            | 17526            | 17456              | 17299              | 2.82                          | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 0°F(-17.8°C)                                       | 19776                               | 19381            | 19284            | 19207              | 19034              | 2.83                          | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 5°F(-15.0°C)                                       | 22029                               | 21588            | 21481            | 21395              | 21202              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 14°F(-10.0°C)                                      | 23878                               | 23400            | 23283            | 23190              | 22982              | 2.98                          | 3.01             | 3.01             | 3.02               | 3.03               |
|                  | 17°F(-8.3°C)                                       | 24494                               | 24004            | 23884            | 23789              | 23575              | 3.03                          | 3.05             | 3.06             | 3.07               | 3.08               |
|                  | 22°F(-5.6°C)                                       | 25667                               | 25154            | 25028            | 24928              | 24703              | 2.92                          | 2.94             | 2.95             | 2.95               | 2.96               |
|                  | 27°F(-2.8°C)                                       | 26840                               | 26303            | 26171            | 26067              | 25832              | 2.80                          | 2.82             | 2.83             | 2.84               | 2.85               |
|                  | 32°F(-0.0°C)                                       | 28012                               | 27452            | 27315            | 27206              | 26961              | 2.69                          | 2.71             | 2.71             | 2.72               | 2.73               |
|                  | 35°F(1.7°C)                                        | 28716                               | 28142            | 28001            | 27889              | 27638              | 2.62                          | 2.64             | 2.65             | 2.65               | 2.66               |
|                  | 37°F(2.8°C)                                        | 30236                               | 29631            | 29483            | 29365              | 29101              | 2.68                          | 2.70             | 2.71             | 2.71               | 2.72               |
|                  | 42°F(5.6°C)                                        | 34036                               | 33355            | 33188            | 33056              | 32758              | 2.84                          | 2.86             | 2.87             | 2.87               | 2.88               |
|                  | 44.6°F(7.0°C)                                      | 35556                               | 34845            | 34670            | 34532              | 34221              | 2.90                          | 2.92             | 2.93             | 2.93               | 2.95               |
|                  | 47°F(8.3°C)                                        | 37836                               | 37079            | 36893            | 36746              | 36415              | 2.99                          | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 52°F(11.1°C)                                       | 39019                               | 38239            | 38048            | 37895              | 37554              | 2.83                          | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 57°F(13.9°C)                                       | 40203                               | 39399            | 39202            | 39045              | 38693              | 2.67                          | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 59°F(15.0°C)                                       | 40676                               | 39863            | 39663            | 39505              | 39149              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 62°F(16.7°C)                                       | 41386                               | 40559            | 40356            | 40194              | 39833              | 2.51                          | 2.53             | 2.54             | 2.54               | 2.56               |
|                  | 64.4°F(18.0°C)                                     | 41954                               | 41115            | 40910            | 40746              | 40379              | 2.44                          | 2.46             | 2.46             | 2.47               | 2.48               |
|                  | 69.8°F(21.0°C)                                     | 43233                               | 42368            | 42156            | 41987              | 41610              | 2.27                          | 2.28             | 2.29             | 2.29               | 2.30               |
|                  | 75.2°F(24.0°C)                                     | 44511                               | 43621            | 43403            | 43229              | 42840              | 2.09                          | 2.11             | 2.11             | 2.12               | 2.13               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 16051                               | 15729            | 15651            | 15588              | 15448              | 3.26                          | 3.28             | 3.29             | 3.29               | 3.31               |
|                  | -4°F(-20.0°C)                                      | 21124                               | 20702            | 20598            | 20516              | 20331              | 3.52                          | 3.55             | 3.56             | 3.56               | 3.58               |
|                  | 0°F(-17.8°C)                                       | 23242                               | 22778            | 22664            | 22573              | 22370              | 3.53                          | 3.56             | 3.57             | 3.58               | 3.59               |
|                  | 5°F(-15.0°C)                                       | 25890                               | 25372            | 25245            | 25144              | 24918              | 3.55                          | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 14°F(-10.0°C)                                      | 28063                               | 27502            | 27364            | 27255              | 27009              | 3.73                          | 3.76             | 3.77             | 3.77               | 3.79               |
|                  | 17°F(-8.3°C)                                       | 28787                               | 28212            | 28071            | 27958              | 27707              | 3.79                          | 3.82             | 3.83             | 3.83               | 3.85               |
|                  | 22°F(-5.6°C)                                       | 30166                               | 29562            | 29414            | 29297              | 29033              | 3.65                          | 3.67             | 3.68             | 3.69               | 3.70               |
|                  | 27°F(-2.8°C)                                       | 31544                               | 30913            | 30758            | 30635              | 30360              | 3.50                          | 3.53             | 3.54             | 3.54               | 3.56               |
|                  | 32°F(-0.0°C)                                       | 32922                               | 32264            | 32102            | 31974              | 31686              | 3.36                          | 3.39             | 3.39             | 3.40               | 3.41               |
|                  | 35°F(1.7°C)                                        | 33749                               | 33074            | 32909            | 32777              | 32482              | 3.27                          | 3.30             | 3.31             | 3.31               | 3.33               |
|                  | 37°F(2.8°C)                                        | 35535                               | 34825            | 34651            | 34512              | 34201              | 3.35                          | 3.38             | 3.39             | 3.39               | 3.41               |
|                  | 42°F(5.6°C)                                        | 40001                               | 39201            | 39005            | 38849              | 38499              | 3.55                          | 3.57             | 3.58             | 3.59               | 3.60               |
|                  | 44.6°F(7.0°C)                                      | 41787                               | 40952            | 40747            | 40584              | 40219              | 3.62                          | 3.65             | 3.66             | 3.67               | 3.68               |
|                  | 47°F(8.3°C)                                        | 44467                               | 43578            | 43360            | 43186              | 42798              | 3.74                          | 3.77             | 3.78             | 3.79               | 3.80               |
|                  | 52°F(11.1°C)                                       | 45858                               | 44941            | 44716            | 44537              | 44136              | 3.54                          | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 57°F(13.9°C)                                       | 47249                               | 46304            | 46072            | 45888              | 45475              | 3.34                          | 3.37             | 3.38             | 3.38               | 3.40               |
|                  | 59°F(15.0°C)                                       | 47805                               | 46849            | 46615            | 46429              | 46011              | 3.26                          | 3.29             | 3.30             | 3.30               | 3.32               |
|                  | 62°F(16.7°C)                                       | 48640                               | 47667            | 47429            | 47239              | 46814              | 3.14                          | 3.17             | 3.17             | 3.18               | 3.19               |
|                  | 64.4°F(18.0°C)                                     | 49308                               | 48321            | 48080            | 47888              | 47457              | 3.05                          | 3.07             | 3.08             | 3.08               | 3.10               |
|                  | 69.8°F(21.0°C)                                     | 50810                               | 49794            | 49545            | 49347              | 48902              | 2.83                          | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 75.2°F(24.0°C)                                     | 52312                               | 51266            | 51010            | 50806              | 50348              | 2.62                          | 2.64             | 2.64             | 2.65               | 2.66               |

**Table 27: HEATING PERFORMANCE 36K - NON-DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 9887                                | 9690             | 9641             | 6587               | 6528               | 1.60                          | 1.62             | 1.62             | 1.62               | 1.63               |
|                  | -4°F(-20.0°C)                                      | 13013                               | 12753            | 12689            | 8670               | 8592               | 1.73                          | 1.75             | 1.75             | 1.76               | 1.76               |
|                  | 0°F(-17.8°C)                                       | 14318                               | 14031            | 13961            | 9539               | 9453               | 1.74                          | 1.76             | 1.76             | 1.76               | 1.77               |
|                  | 5°F(-15.0°C)                                       | 15949                               | 15630            | 15551            | 10626              | 10530              | 1.75                          | 1.77             | 1.77             | 1.77               | 1.78               |
|                  | 14°F(-10.0°C)                                      | 17287                               | 16941            | 16857            | 11518              | 11414              | 1.84                          | 1.85             | 1.86             | 1.86               | 1.87               |
|                  | 17°F(-8.3°C)                                       | 17733                               | 17379            | 17292            | 11815              | 11708              | 1.87                          | 1.88             | 1.89             | 1.89               | 1.90               |
|                  | 22°F(-5.6°C)                                       | 18582                               | 18211            | 18120            | 12380              | 12269              | 1.80                          | 1.81             | 1.81             | 1.82               | 1.83               |
|                  | 27°F(-2.8°C)                                       | 19431                               | 19043            | 18948            | 12946              | 12830              | 1.73                          | 1.74             | 1.74             | 1.75               | 1.75               |
|                  | 32°F(0.0°C)                                        | 20280                               | 19875            | 19775            | 13512              | 13390              | 1.66                          | 1.67             | 1.67             | 1.68               | 1.68               |
|                  | 35°F(1.7°C)                                        | 20790                               | 20374            | 20272            | 13851              | 13727              | 1.61                          | 1.63             | 1.63             | 1.63               | 1.64               |
|                  | 37°F(2.8°C)                                        | 21890                               | 21452            | 21345            | 14584              | 14453              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |
|                  | 42°F(5.6°C)                                        | 24641                               | 24148            | 24028            | 16417              | 16269              | 1.75                          | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 44.6°F(7.0°C)                                      | 25742                               | 25227            | 25101            | 17150              | 16996              | 1.79                          | 1.80             | 1.80             | 1.81               | 1.82               |
|                  | 47°F(8.3°C)                                        | 27392                               | 26844            | 26710            | 18250              | 18086              | 1.84                          | 1.86             | 1.86             | 1.87               | 1.87               |
|                  | 52°F(11.1°C)                                       | 28249                               | 27684            | 27546            | 18821              | 18651              | 1.75                          | 1.76             | 1.76             | 1.77               | 1.77               |
|                  | 57°F(13.9°C)                                       | 29106                               | 28524            | 28381            | 19392              | 19217              | 1.65                          | 1.66             | 1.66             | 1.67               | 1.67               |
|                  | 59°F(15.0°C)                                       | 29449                               | 28860            | 28715            | 19620              | 19444              | 1.61                          | 1.62             | 1.62             | 1.63               | 1.63               |
|                  | 62°F(16.7°C)                                       | 29963                               | 29364            | 29217            | 19963              | 19783              | 1.55                          | 1.56             | 1.56             | 1.57               | 1.57               |
|                  | 64.4°F(18.0°C)                                     | 30374                               | 29767            | 29618            | 20237              | 20055              | 1.50                          | 1.51             | 1.52             | 1.52               | 1.53               |
|                  | 69.8°F(21.0°C)                                     | 31299                               | 30674            | 30520            | 20853              | 20666              | 1.40                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 75.2°F(24.0°C)                                     | 32225                               | 31580            | 31423            | 21470              | 21277              | 1.29                          | 1.30             | 1.30             | 1.31               | 1.31               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 11620                               | 11388            | 11331            | 9347               | 9263               | 2.06                          | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | -4°F(-20.0°C)                                      | 15294                               | 14988            | 14913            | 12302              | 12191              | 2.22                          | 2.24             | 2.25             | 2.25               | 2.26               |
|                  | 0°F(-17.8°C)                                       | 16827                               | 16490            | 16408            | 13536              | 13414              | 2.23                          | 2.25             | 2.26             | 2.26               | 2.27               |
|                  | 5°F(-15.0°C)                                       | 18744                               | 18369            | 18277            | 15078              | 14942              | 2.25                          | 2.26             | 2.27             | 2.27               | 2.28               |
|                  | 14°F(-10.0°C)                                      | 20317                               | 19911            | 19811            | 16343              | 16196              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.39               |
|                  | 17°F(-8.3°C)                                       | 20841                               | 20425            | 20322            | 16765              | 16614              | 2.39                          | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 22°F(-5.6°C)                                       | 21839                               | 21402            | 21295            | 17568              | 17409              | 2.30                          | 2.32             | 2.33             | 2.33               | 2.34               |
|                  | 27°F(-2.8°C)                                       | 22837                               | 22380            | 22268            | 18370              | 18205              | 2.21                          | 2.23             | 2.24             | 2.24               | 2.25               |
|                  | 32°F(0.0°C)                                        | 23835                               | 23358            | 23241            | 19173              | 19000              | 2.12                          | 2.14             | 2.14             | 2.15               | 2.16               |
|                  | 35°F(1.7°C)                                        | 24434                               | 23945            | 23825            | 19654              | 19478              | 2.07                          | 2.09             | 2.09             | 2.09               | 2.10               |
|                  | 37°F(2.8°C)                                        | 25727                               | 25212            | 25086            | 20695              | 20508              | 2.12                          | 2.14             | 2.14             | 2.14               | 2.15               |
|                  | 42°F(5.6°C)                                        | 28960                               | 28381            | 28239            | 23295              | 23086              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.28               |
|                  | 44.6°F(7.0°C)                                      | 30253                               | 29648            | 29500            | 24336              | 24117              | 2.29                          | 2.31             | 2.31             | 2.32               | 2.33               |
|                  | 47°F(8.3°C)                                        | 32193                               | 31549            | 31392            | 25896              | 25663              | 2.36                          | 2.38             | 2.39             | 2.39               | 2.40               |
|                  | 52°F(11.1°C)                                       | 33200                               | 32536            | 32373            | 26706              | 26466              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.27               |
|                  | 57°F(13.9°C)                                       | 34207                               | 33523            | 33355            | 27516              | 27269              | 2.11                          | 2.13             | 2.13             | 2.14               | 2.15               |
|                  | 59°F(15.0°C)                                       | 34610                               | 33918            | 33748            | 27840              | 27590              | 2.06                          | 2.08             | 2.08             | 2.09               | 2.10               |
|                  | 62°F(16.7°C)                                       | 35214                               | 34510            | 34337            | 28326              | 28071              | 1.99                          | 2.00             | 2.01             | 2.01               | 2.02               |
|                  | 64.4°F(18.0°C)                                     | 35698                               | 34984            | 34809            | 28715              | 28457              | 1.93                          | 1.94             | 1.95             | 1.95               | 1.96               |
|                  | 69.8°F(21.0°C)                                     | 36785                               | 36050            | 35869            | 29590              | 29324              | 1.79                          | 1.80             | 1.81             | 1.81               | 1.82               |
|                  | 75.2°F(24.0°C)                                     | 37873                               | 37115            | 36930            | 30465              | 30191              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |

**Table 27: HEATING PERFORMANCE 36K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 13657                               | 13384            | 13317            | 13264              | 13144              | 2.60                          | 2.63             | 2.63             | 2.64               | 2.65               |
|                  | -4°F(-20.0°C)                                      | 17974                               | 17614            | 17526            | 17456              | 17299              | 2.82                          | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 0°F(-17.8°C)                                       | 19776                               | 19381            | 19284            | 19207              | 19034              | 2.83                          | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 5°F(-15.0°C)                                       | 22029                               | 21588            | 21481            | 21395              | 21202              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 14°F(-10.0°C)                                      | 23878                               | 23400            | 23283            | 23190              | 22982              | 2.98                          | 3.01             | 3.01             | 3.02               | 3.03               |
|                  | 17°F(-8.3°C)                                       | 24494                               | 24004            | 23884            | 23789              | 23575              | 3.03                          | 3.05             | 3.06             | 3.07               | 3.08               |
|                  | 22°F(-5.6°C)                                       | 25667                               | 25154            | 25028            | 24928              | 24703              | 2.92                          | 2.94             | 2.95             | 2.95               | 2.96               |
|                  | 27°F(-2.8°C)                                       | 26840                               | 26303            | 26171            | 26067              | 25832              | 2.80                          | 2.82             | 2.83             | 2.84               | 2.85               |
|                  | 32°F(0.0°C)                                        | 28012                               | 27452            | 27315            | 27206              | 26961              | 2.69                          | 2.71             | 2.71             | 2.72               | 2.73               |
|                  | 35°F(1.7°C)                                        | 28716                               | 28142            | 28001            | 27889              | 27638              | 2.62                          | 2.64             | 2.65             | 2.65               | 2.66               |
|                  | 37°F(2.8°C)                                        | 30236                               | 29631            | 29483            | 29365              | 29101              | 2.68                          | 2.70             | 2.71             | 2.71               | 2.72               |
|                  | 42°F(5.6°C)                                        | 34036                               | 33355            | 33188            | 33056              | 32758              | 2.84                          | 2.86             | 2.87             | 2.87               | 2.88               |
|                  | 44.6°F(7.0°C)                                      | 35556                               | 34845            | 34670            | 34532              | 34221              | 2.90                          | 2.92             | 2.93             | 2.93               | 2.95               |
|                  | 47°F(8.3°C)                                        | 37836                               | 37079            | 36893            | 36746              | 36415              | 2.99                          | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 52°F(11.1°C)                                       | 39019                               | 38239            | 38048            | 37895              | 37554              | 2.83                          | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 57°F(13.9°C)                                       | 40203                               | 39399            | 39202            | 39045              | 38693              | 2.67                          | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 59°F(15.0°C)                                       | 40676                               | 39863            | 39663            | 39505              | 39149              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 62°F(16.7°C)                                       | 41386                               | 40559            | 40356            | 40194              | 39833              | 2.51                          | 2.53             | 2.54             | 2.54               | 2.56               |
|                  | 64.4°F(18.0°C)                                     | 41954                               | 41115            | 40910            | 40746              | 40379              | 2.44                          | 2.46             | 2.46             | 2.47               | 2.48               |
|                  | 69.8°F(21.0°C)                                     | 43233                               | 42368            | 42156            | 41987              | 41610              | 2.27                          | 2.28             | 2.29             | 2.29               | 2.30               |
|                  | 75.2°F(24.0°C)                                     | 44511                               | 43621            | 43403            | 43229              | 42840              | 2.09                          | 2.11             | 2.11             | 2.12               | 2.13               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 16051                               | 15729            | 15651            | 15588              | 15448              | 3.26                          | 3.28             | 3.29             | 3.29               | 3.31               |
|                  | -4°F(-20.0°C)                                      | 21124                               | 20702            | 20598            | 20516              | 20331              | 3.52                          | 3.55             | 3.56             | 3.56               | 3.58               |
|                  | 0°F(-17.8°C)                                       | 23242                               | 22778            | 22664            | 22573              | 22370              | 3.53                          | 3.56             | 3.57             | 3.58               | 3.59               |
|                  | 5°F(-15.0°C)                                       | 25890                               | 25372            | 25245            | 25144              | 24918              | 3.55                          | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 14°F(-10.0°C)                                      | 28063                               | 27502            | 27364            | 27255              | 27009              | 3.73                          | 3.76             | 3.77             | 3.77               | 3.79               |
|                  | 17°F(-8.3°C)                                       | 28787                               | 28212            | 28071            | 27958              | 27707              | 3.79                          | 3.82             | 3.83             | 3.83               | 3.85               |
|                  | 22°F(-5.6°C)                                       | 30166                               | 29562            | 29414            | 29297              | 29033              | 3.65                          | 3.67             | 3.68             | 3.69               | 3.70               |
|                  | 27°F(-2.8°C)                                       | 31544                               | 30913            | 30758            | 30635              | 30360              | 3.50                          | 3.53             | 3.54             | 3.54               | 3.56               |
|                  | 32°F(0.0°C)                                        | 32922                               | 32264            | 32102            | 31974              | 31686              | 3.36                          | 3.39             | 3.39             | 3.40               | 3.41               |
|                  | 35°F(1.7°C)                                        | 33749                               | 33074            | 32909            | 32777              | 32482              | 3.27                          | 3.30             | 3.31             | 3.31               | 3.33               |
|                  | 37°F(2.8°C)                                        | 35535                               | 34825            | 34651            | 34512              | 34201              | 3.35                          | 3.38             | 3.39             | 3.39               | 3.41               |
|                  | 42°F(5.6°C)                                        | 40001                               | 39201            | 39005            | 38849              | 38499              | 3.55                          | 3.57             | 3.58             | 3.59               | 3.60               |
|                  | 44.6°F(7.0°C)                                      | 41787                               | 40952            | 40747            | 40584              | 40219              | 3.62                          | 3.65             | 3.66             | 3.67               | 3.68               |
|                  | 47°F(8.3°C)                                        | 44467                               | 43578            | 43360            | 43186              | 42798              | 3.74                          | 3.77             | 3.78             | 3.79               | 3.80               |
|                  | 52°F(11.1°C)                                       | 45858                               | 44941            | 44716            | 44537              | 44136              | 3.54                          | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 57°F(13.9°C)                                       | 47249                               | 46304            | 46072            | 45888              | 45475              | 3.34                          | 3.37             | 3.38             | 3.38               | 3.40               |
|                  | 59°F(15.0°C)                                       | 47805                               | 46849            | 46615            | 46429              | 46011              | 3.26                          | 3.29             | 3.30             | 3.30               | 3.32               |
|                  | 62°F(16.7°C)                                       | 48640                               | 47667            | 47429            | 47239              | 46814              | 3.14                          | 3.17             | 3.17             | 3.18               | 3.19               |
|                  | 64.4°F(18.0°C)                                     | 49308                               | 48321            | 48080            | 47888              | 47457              | 3.05                          | 3.07             | 3.08             | 3.08               | 3.10               |
|                  | 69.8°F(21.0°C)                                     | 50810                               | 49794            | 49545            | 49347              | 48902              | 2.83                          | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 75.2°F(24.0°C)                                     | 52312                               | 51266            | 51010            | 50806              | 50348              | 2.62                          | 2.64             | 2.64             | 2.65               | 2.66               |

**Table 28: HEATING PERFORMANCE 48K - NON-DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 882              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 13282                               | 13016            | 12951            | 10455              | 10361              | 2.92                          | 2.94             | 2.95             | 2.95               | 2.96               |
|                  | -4°F(-20.0°C)                                      | 15840                               | 15523            | 15446            | 12469              | 12356              | 3.12                          | 3.14             | 3.15             | 3.16               | 3.17               |
|                  | 0°F(-17.8°C)                                       | 16671                               | 16338            | 16256            | 13123              | 13005              | 3.16                          | 3.18             | 3.19             | 3.20               | 3.21               |
|                  | 5°F(-15.0°C)                                       | 17709                               | 17355            | 17269            | 13940              | 13815              | 3.21                          | 3.23             | 3.24             | 3.25               | 3.26               |
|                  | 14°F(-10.0°C)                                      | 18226                               | 17861            | 17772            | 14347              | 14218              | 3.24                          | 3.26             | 3.27             | 3.28               | 3.29               |
|                  | 17°F(-8.3°C)                                       | 18398                               | 18030            | 17940            | 14482              | 14352              | 3.25                          | 3.27             | 3.28             | 3.29               | 3.30               |
|                  | 22°F(-5.6°C)                                       | 19031                               | 18650            | 18557            | 14980              | 14845              | 3.13                          | 3.16             | 3.16             | 3.17               | 3.18               |
|                  | 27°F(-2.8°C)                                       | 19664                               | 19270            | 19174            | 15478              | 15339              | 3.02                          | 3.04             | 3.05             | 3.06               | 3.07               |
|                  | 32°F(-0.0°C)                                       | 20296                               | 19890            | 19791            | 15976              | 15833              | 2.91                          | 2.93             | 2.93             | 2.94               | 2.95               |
|                  | 35°F(1.7°C)                                        | 20676                               | 20262            | 20161            | 16275              | 16129              | 2.84                          | 2.86             | 2.87             | 2.87               | 2.88               |
|                  | 37°F(2.8°C)                                        | 21575                               | 21144            | 21038            | 16983              | 16830              | 2.86                          | 2.88             | 2.89             | 2.90               | 2.91               |
|                  | 42°F(5.6°C)                                        | 23824                               | 23347            | 23231            | 18753              | 18584              | 2.92                          | 2.94             | 2.95             | 2.96               | 2.97               |
|                  | 44.6°F(7.0°C)                                      | 24723                               | 24229            | 24108            | 19461              | 19286              | 2.94                          | 2.97             | 2.97             | 2.98               | 2.99               |
|                  | 47°F(8.3°C)                                        | 26072                               | 25551            | 25423            | 20523              | 20338              | 2.98                          | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 52°F(11.1°C)                                       | 25337                               | 24830            | 24706            | 19944              | 19764              | 2.64                          | 2.67             | 2.67             | 2.68               | 2.69               |
|                  | 57°F(13.9°C)                                       | 24601                               | 24109            | 23988            | 19365              | 19190              | 2.31                          | 2.33             | 2.33             | 2.34               | 2.35               |
|                  | 59°F(15.0°C)                                       | 24307                               | 23821            | 23701            | 19133              | 18961              | 2.17                          | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 62°F(16.7°C)                                       | 23865                               | 23388            | 23271            | 18786              | 18617              | 1.97                          | 1.99             | 1.99             | 2.00               | 2.00               |
|                  | 64.4°F(18.0°C)                                     | 23512                               | 23042            | 22927            | 18508              | 18341              | 1.81                          | 1.83             | 1.83             | 1.83               | 1.84               |
|                  | 69.8°F(21.0°C)                                     | 21820                               | 21384            | 21277            | 17176              | 17021              | 1.45                          | 1.46             | 1.46             | 1.47               | 1.47               |
|                  | 75.2°F(24.0°C)                                     | 20477                               | 20068            | 19967            | 16119              | 15974              | 1.09                          | 1.10             | 1.10             | 1.10               | 1.10               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 16967                               | 16628            | 16545            | 14835              | 14702              | 3.43                          | 3.46             | 3.47             | 3.47               | 3.49               |
|                  | -4°F(-20.0°C)                                      | 20235                               | 19831            | 19731            | 17693              | 17533              | 3.67                          | 3.70             | 3.71             | 3.71               | 3.73               |
|                  | 0°F(-17.8°C)                                       | 21297                               | 20871            | 20766            | 18621              | 18453              | 3.72                          | 3.75             | 3.75             | 3.76               | 3.78               |
|                  | 5°F(-15.0°C)                                       | 22623                               | 22171            | 22060            | 19781              | 19603              | 3.77                          | 3.80             | 3.81             | 3.82               | 3.83               |
|                  | 14°F(-10.0°C)                                      | 23283                               | 22817            | 22703            | 20358              | 20174              | 3.81                          | 3.84             | 3.85             | 3.85               | 3.87               |
|                  | 17°F(-8.3°C)                                       | 23503                               | 23033            | 22918            | 20550              | 20365              | 3.82                          | 3.85             | 3.86             | 3.87               | 3.88               |
|                  | 22°F(-5.6°C)                                       | 24311                               | 23825            | 23706            | 21257              | 21065              | 3.69                          | 3.72             | 3.72             | 3.73               | 3.75               |
|                  | 27°F(-2.8°C)                                       | 25120                               | 24617            | 24494            | 21963              | 21766              | 3.55                          | 3.58             | 3.59             | 3.59               | 3.61               |
|                  | 32°F(-0.0°C)                                       | 25928                               | 25409            | 25282            | 22670              | 22466              | 3.42                          | 3.45             | 3.45             | 3.46               | 3.47               |
|                  | 35°F(1.7°C)                                        | 26413                               | 25885            | 25755            | 23094              | 22886              | 3.34                          | 3.36             | 3.37             | 3.38               | 3.39               |
|                  | 37°F(2.8°C)                                        | 27562                               | 27011            | 26876            | 24099              | 23882              | 3.37                          | 3.39             | 3.40             | 3.41               | 3.42               |
|                  | 42°F(5.6°C)                                        | 30434                               | 29825            | 29676            | 26610              | 26371              | 3.44                          | 3.46             | 3.47             | 3.48               | 3.49               |
|                  | 44.6°F(7.0°C)                                      | 31583                               | 30951            | 30797            | 27615              | 27366              | 3.46                          | 3.49             | 3.50             | 3.51               | 3.52               |
|                  | 47°F(8.3°C)                                        | 33306                               | 32640            | 32477            | 29121              | 28859              | 3.50                          | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 52°F(11.1°C)                                       | 32367                               | 31719            | 31561            | 28300              | 28045              | 3.11                          | 3.14             | 3.14             | 3.15               | 3.16               |
|                  | 57°F(13.9°C)                                       | 31427                               | 30798            | 30644            | 27478              | 27231              | 2.72                          | 2.74             | 2.74             | 2.75               | 2.76               |
|                  | 59°F(15.0°C)                                       | 31051                               | 30430            | 30278            | 27149              | 26905              | 2.56                          | 2.58             | 2.58             | 2.59               | 2.60               |
|                  | 62°F(16.7°C)                                       | 30487                               | 29877            | 29728            | 26656              | 26416              | 2.32                          | 2.34             | 2.34             | 2.35               | 2.36               |
|                  | 64.4°F(18.0°C)                                     | 30036                               | 29435            | 29288            | 26262              | 26025              | 2.13                          | 2.15             | 2.15             | 2.16               | 2.17               |
|                  | 69.8°F(21.0°C)                                     | 27874                               | 27317            | 27180            | 24372              | 24153              | 1.71                          | 1.72             | 1.72             | 1.73               | 1.73               |
|                  | 75.2°F(24.0°C)                                     | 26159                               | 25636            | 25508            | 22872              | 22666              | 1.28                          | 1.29             | 1.29             | 1.29               | 1.30               |

**Table 28: HEATING PERFORMANCE 48K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1676             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 21675                               | 21242            | 21136            | 21051              | 20862              | 4.04                          | 4.07             | 4.08             | 4.08               | 4.10               |
|                  | -4°F(-20.0°C)                                      | 25850                               | 25333            | 25206            | 25105              | 24879              | 4.32                          | 4.35             | 4.36             | 4.37               | 4.39               |
|                  | 0°F(-17.8°C)                                       | 27206                               | 26662            | 26528            | 26422              | 26184              | 4.37                          | 4.41             | 4.41             | 4.42               | 4.44               |
|                  | 5°F(-15.0°C)                                       | 28900                               | 28322            | 28181            | 28068              | 27815              | 4.44                          | 4.47             | 4.48             | 4.49               | 4.51               |
|                  | 14°F(-10.0°C)                                      | 29743                               | 29148            | 29003            | 28887              | 28627              | 4.48                          | 4.52             | 4.53             | 4.53               | 4.55               |
|                  | 17°F(-8.3°C)                                       | 30024                               | 29424            | 29277            | 29160              | 28897              | 4.49                          | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 22°F(-5.6°C)                                       | 31057                               | 30436            | 30284            | 30162              | 29891              | 4.34                          | 4.37             | 4.38             | 4.39               | 4.41               |
|                  | 27°F(-2.8°C)                                       | 32089                               | 31448            | 31290            | 31165              | 30885              | 4.18                          | 4.21             | 4.22             | 4.23               | 4.25               |
|                  | 32°F(0.0°C)                                        | 33122                               | 32460            | 32297            | 32168              | 31879              | 4.02                          | 4.05             | 4.06             | 4.07               | 4.09               |
|                  | 35°F(1.7°C)                                        | 33742                               | 33067            | 32901            | 32770              | 32475              | 3.93                          | 3.96             | 3.97             | 3.97               | 3.99               |
|                  | 37°F(2.8°C)                                        | 35209                               | 34505            | 34333            | 34195              | 33887              | 3.96                          | 3.99             | 4.00             | 4.01               | 4.02               |
|                  | 42°F(5.6°C)                                        | 38879                               | 38101            | 37910            | 37759              | 37419              | 4.04                          | 4.07             | 4.08             | 4.09               | 4.11               |
|                  | 44.6°F(7.0°C)                                      | 40346                               | 39539            | 39342            | 39184              | 38832              | 4.07                          | 4.11             | 4.12             | 4.12               | 4.14               |
|                  | 47°F(8.3°C)                                        | 42548                               | 41697            | 41488            | 41322              | 40951              | 4.12                          | 4.16             | 4.17             | 4.17               | 4.19               |
|                  | 52°F(11.1°C)                                       | 41347                               | 40520            | 40318            | 40156              | 39795              | 3.66                          | 3.69             | 3.70             | 3.70               | 3.72               |
|                  | 57°F(13.9°C)                                       | 40147                               | 39344            | 39147            | 38990              | 38640              | 3.19                          | 3.22             | 3.23             | 3.23               | 3.25               |
|                  | 59°F(15.0°C)                                       | 39666                               | 38873            | 38679            | 38524              | 38177              | 3.01                          | 3.03             | 3.04             | 3.05               | 3.06               |
|                  | 62°F(16.7°C)                                       | 38946                               | 38167            | 37976            | 37824              | 37484              | 2.73                          | 2.75             | 2.76             | 2.76               | 2.77               |
|                  | 64.4°F(18.0°C)                                     | 38370                               | 37602            | 37414            | 37265              | 36929              | 2.51                          | 2.53             | 2.53             | 2.54               | 2.55               |
|                  | 69.8°F(21.0°C)                                     | 35609                               | 34896            | 34722            | 34583              | 34272              | 2.01                          | 2.02             | 2.03             | 2.03               | 2.04               |
|                  | 75.2°F(24.0°C)                                     | 33417                               | 32749            | 32585            | 32455              | 32163              | 1.50                          | 1.52             | 1.52             | 1.52               | 1.53               |
| 2206             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 27689                               | 27136            | 27000            | 26892              | 26650              | 4.75                          | 4.79             | 4.80             | 4.81               | 4.82               |
|                  | -4°F(-20.0°C)                                      | 33022                               | 32362            | 32200            | 32071              | 31783              | 5.08                          | 5.12             | 5.13             | 5.14               | 5.16               |
|                  | 0°F(-17.8°C)                                       | 34754                               | 34059            | 33889            | 33753              | 33450              | 5.14                          | 5.18             | 5.19             | 5.20               | 5.23               |
|                  | 5°F(-15.0°C)                                       | 36919                               | 36181            | 36000            | 35856              | 35533              | 5.22                          | 5.26             | 5.28             | 5.29               | 5.31               |
|                  | 14°F(-10.0°C)                                      | 37996                               | 37236            | 37050            | 36902              | 36570              | 5.27                          | 5.31             | 5.32             | 5.33               | 5.36               |
|                  | 17°F(-8.3°C)                                       | 38355                               | 37588            | 37400            | 37250              | 36915              | 5.29                          | 5.33             | 5.34             | 5.35               | 5.37               |
|                  | 22°F(-5.6°C)                                       | 39674                               | 38881            | 38686            | 38531              | 38185              | 5.10                          | 5.14             | 5.15             | 5.16               | 5.18               |
|                  | 27°F(-2.8°C)                                       | 40993                               | 40173            | 39972            | 39813              | 39454              | 4.92                          | 4.96             | 4.97             | 4.98               | 5.00               |
|                  | 32°F(0.0°C)                                        | 42312                               | 41466            | 41259            | 41094              | 40724              | 4.73                          | 4.77             | 4.78             | 4.79               | 4.81               |
|                  | 35°F(1.7°C)                                        | 43104                               | 42242            | 42030            | 41862              | 41485              | 4.62                          | 4.66             | 4.67             | 4.68               | 4.69               |
|                  | 37°F(2.8°C)                                        | 44979                               | 44079            | 43859            | 43683              | 43290              | 4.66                          | 4.70             | 4.71             | 4.71               | 4.73               |
|                  | 42°F(5.6°C)                                        | 49666                               | 48673            | 48429            | 48236              | 47801              | 4.75                          | 4.79             | 4.80             | 4.81               | 4.83               |
|                  | 44.6°F(7.0°C)                                      | 51541                               | 50510            | 50258            | 50057              | 49606              | 4.79                          | 4.83             | 4.84             | 4.85               | 4.87               |
|                  | 47°F(8.3°C)                                        | 54353                               | 53266            | 53000            | 52788              | 52313              | 4.85                          | 4.89             | 4.90             | 4.91               | 4.93               |
|                  | 52°F(11.1°C)                                       | 52820                               | 51763            | 51504            | 51298              | 50837              | 4.30                          | 4.34             | 4.35             | 4.36               | 4.37               |
|                  | 57°F(13.9°C)                                       | 51286                               | 50260            | 50009            | 49809              | 49361              | 3.76                          | 3.79             | 3.80             | 3.80               | 3.82               |
|                  | 59°F(15.0°C)                                       | 50673                               | 49659            | 49411            | 49213              | 48770              | 3.54                          | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 62°F(16.7°C)                                       | 49752                               | 48757            | 48513            | 48319              | 47885              | 3.21                          | 3.24             | 3.24             | 3.25               | 3.26               |
|                  | 64.4°F(18.0°C)                                     | 49016                               | 48036            | 47796            | 47604              | 47176              | 2.95                          | 2.97             | 2.98             | 2.99               | 3.00               |
|                  | 69.8°F(21.0°C)                                     | 45489                               | 44579            | 44356            | 44179              | 43781              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.40               |
|                  | 75.2°F(24.0°C)                                     | 42689                               | 41836            | 41626            | 41460              | 41087              | 1.77                          | 1.78             | 1.79             | 1.79               | 1.80               |

**Table 29: HEATING PERFORMANCE 55K - NON-DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 14908                               | 14610            | 14537            | 11022              | 10923              | 3.10                          | 3.12             | 3.13             | 3.13               | 3.15               |
|                  | -4°F(-20.0°C)                                      | 17161                               | 16817            | 16733            | 12687              | 12573              | 3.00                          | 3.03             | 3.03             | 3.04               | 3.05               |
|                  | 0°F(-17.8°C)                                       | 18829                               | 18452            | 18360            | 13920              | 13795              | 2.99                          | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 5°F(-15.0°C)                                       | 20915                               | 20496            | 20394            | 15462              | 15323              | 2.98                          | 3.01             | 3.01             | 3.02               | 3.03               |
|                  | 14°F(-10.0°C)                                      | 21719                               | 21285            | 21178            | 16057              | 15912              | 3.13                          | 3.15             | 3.16             | 3.17               | 3.18               |
|                  | 17°F(-8.3°C)                                       | 21987                               | 21547            | 21440            | 16255              | 16109              | 3.18                          | 3.20             | 3.21             | 3.21               | 3.23               |
|                  | 22°F(-5.6°C)                                       | 22255                               | 21810            | 21701            | 16453              | 16305              | 3.07                          | 3.10             | 3.10             | 3.11               | 3.12               |
|                  | 27°F(-2.8°C)                                       | 22523                               | 22072            | 21962            | 16651              | 16501              | 2.97                          | 2.99             | 3.00             | 3.00               | 3.02               |
|                  | 32°F(-0.0°C)                                       | 22791                               | 22335            | 22223            | 16849              | 16698              | 2.87                          | 2.89             | 2.89             | 2.90               | 2.91               |
|                  | 35°F(1.7°C)                                        | 22952                               | 22493            | 22380            | 16968              | 16815              | 2.80                          | 2.83             | 2.83             | 2.84               | 2.85               |
|                  | 37°F(2.8°C)                                        | 24489                               | 23999            | 23879            | 18105              | 17942              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 42°F(5.6°C)                                        | 28333                               | 27766            | 27627            | 20946              | 20758              | 2.94                          | 2.96             | 2.97             | 2.98               | 2.99               |
|                  | 44.6°F(7.0°C)                                      | 29870                               | 29273            | 29126            | 22083              | 21884              | 2.98                          | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 47°F(8.3°C)                                        | 32176                               | 31533            | 31375            | 23788              | 23574              | 3.04                          | 3.06             | 3.07             | 3.08               | 3.09               |
|                  | 52°F(11.1°C)                                       | 30295                               | 29690            | 29541            | 22397              | 22196              | 2.69                          | 2.71             | 2.71             | 2.72               | 2.73               |
|                  | 57°F(13.9°C)                                       | 28415                               | 27846            | 27707            | 21007              | 20818              | 2.33                          | 2.35             | 2.36             | 2.36               | 2.37               |
|                  | 59°F(15.0°C)                                       | 27662                               | 27109            | 26974            | 20451              | 20267              | 2.19                          | 2.21             | 2.22             | 2.22               | 2.23               |
|                  | 62°F(16.7°C)                                       | 26534                               | 26003            | 25873            | 19617              | 19440              | 1.98                          | 2.00             | 2.00             | 2.01               | 2.01               |
|                  | 64.4°F(18.0°C)                                     | 25631                               | 25119            | 24993            | 18949              | 18779              | 1.81                          | 1.83             | 1.83             | 1.83               | 1.84               |
|                  | 69.8°F(21.0°C)                                     | 23787                               | 23311            | 23194            | 17586              | 17427              | 1.43                          | 1.44             | 1.45             | 1.45               | 1.45               |
|                  | 75.2°F(24.0°C)                                     | 22323                               | 21877            | 21767            | 16503              | 16355              | 1.05                          | 1.06             | 1.06             | 1.06               | 1.07               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 18505                               | 18135            | 18044            | 15680              | 15539              | 3.64                          | 3.67             | 3.68             | 3.69               | 3.70               |
|                  | -4°F(-20.0°C)                                      | 21300                               | 20874            | 20770            | 18049              | 17887              | 3.53                          | 3.56             | 3.57             | 3.57               | 3.59               |
|                  | 0°F(-17.8°C)                                       | 23371                               | 22904            | 22789            | 19804              | 19626              | 3.52                          | 3.55             | 3.56             | 3.56               | 3.58               |
|                  | 5°F(-15.0°C)                                       | 25960                               | 25441            | 25314            | 21997              | 21799              | 3.51                          | 3.54             | 3.54             | 3.55               | 3.57               |
|                  | 14°F(-10.0°C)                                      | 26958                               | 26419            | 26287            | 22843              | 22638              | 3.68                          | 3.71             | 3.72             | 3.72               | 3.74               |
|                  | 17°F(-8.3°C)                                       | 27291                               | 26745            | 26612            | 23125              | 22917              | 3.74                          | 3.77             | 3.77             | 3.78               | 3.80               |
|                  | 22°F(-5.6°C)                                       | 27624                               | 27071            | 26936            | 23407              | 23196              | 3.61                          | 3.64             | 3.65             | 3.66               | 3.67               |
|                  | 27°F(-2.8°C)                                       | 27956                               | 27397            | 27260            | 23689              | 23476              | 3.49                          | 3.52             | 3.53             | 3.53               | 3.55               |
|                  | 32°F(-0.0°C)                                       | 28289                               | 27723            | 27585            | 23971              | 23755              | 3.37                          | 3.40             | 3.40             | 3.41               | 3.43               |
|                  | 35°F(1.7°C)                                        | 28489                               | 27919            | 27779            | 24140              | 23923              | 3.30                          | 3.32             | 3.33             | 3.34               | 3.35               |
|                  | 37°F(2.8°C)                                        | 30397                               | 29789            | 29640            | 25757              | 25525              | 3.34                          | 3.37             | 3.38             | 3.38               | 3.40               |
|                  | 42°F(5.6°C)                                        | 35168                               | 34464            | 34292            | 29799              | 29531              | 3.46                          | 3.49             | 3.50             | 3.50               | 3.52               |
|                  | 44.6°F(7.0°C)                                      | 37076                               | 36334            | 36153            | 31416              | 31134              | 3.51                          | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 47°F(8.3°C)                                        | 39938                               | 39140            | 38944            | 33842              | 33537              | 3.58                          | 3.61             | 3.61             | 3.62               | 3.63               |
|                  | 52°F(11.1°C)                                       | 37604                               | 36852            | 36668            | 31864              | 31577              | 3.16                          | 3.19             | 3.19             | 3.20               | 3.21               |
|                  | 57°F(13.9°C)                                       | 35269                               | 34564            | 34391            | 29886              | 29617              | 2.75                          | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 59°F(15.0°C)                                       | 34336                               | 33649            | 33481            | 29094              | 28833              | 2.58                          | 2.60             | 2.61             | 2.61               | 2.62               |
|                  | 62°F(16.7°C)                                       | 32935                               | 32276            | 32115            | 27908              | 27656              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 64.4°F(18.0°C)                                     | 31814                               | 31178            | 31022            | 26958              | 26715              | 2.13                          | 2.15             | 2.15             | 2.16               | 2.17               |
|                  | 69.8°F(21.0°C)                                     | 29525                               | 28935            | 28790            | 25018              | 24793              | 1.68                          | 1.70             | 1.70             | 1.70               | 1.71               |
|                  | 75.2°F(24.0°C)                                     | 27708                               | 27154            | 27018            | 23479              | 23267              | 1.23                          | 1.24             | 1.25             | 1.25               | 1.25               |

**Table 29: HEATING PERFORMANCE 55K - NON-DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 22969                               | 22509            | 22397            | 22307              | 22107              | 4.29                          | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | -4°F(-20.0°C)                                      | 26439                               | 25910            | 25781            | 25678              | 25446              | 4.15                          | 4.19             | 4.20             | 4.20               | 4.22               |
|                  | 0°F(-17.8°C)                                       | 29009                               | 28429            | 28287            | 28174              | 27920              | 4.14                          | 4.18             | 4.18             | 4.19               | 4.21               |
|                  | 5°F(-15.0°C)                                       | 32223                               | 31578            | 31420            | 31294              | 31013              | 4.13                          | 4.16             | 4.17             | 4.18               | 4.19               |
|                  | 14°F(-10.0°C)                                      | 33462                               | 32793            | 32629            | 32498              | 32206              | 4.33                          | 4.36             | 4.37             | 4.38               | 4.40               |
|                  | 17°F(-8.3°C)                                       | 33875                               | 33197            | 33031            | 32899              | 32603              | 4.40                          | 4.43             | 4.44             | 4.45               | 4.47               |
|                  | 22°F(-5.6°C)                                       | 34288                               | 33602            | 33434            | 33300              | 33001              | 4.25                          | 4.29             | 4.30             | 4.30               | 4.32               |
|                  | 27°F(-2.8°C)                                       | 34701                               | 34007            | 33837            | 33701              | 33398              | 4.11                          | 4.14             | 4.15             | 4.16               | 4.18               |
|                  | 32°F(0.0°C)                                        | 35113                               | 34411            | 34239            | 34102              | 33795              | 3.97                          | 4.00             | 4.01             | 4.01               | 4.03               |
|                  | 35°F(1.7°C)                                        | 35361                               | 34654            | 34481            | 34343              | 34034              | 3.88                          | 3.91             | 3.92             | 3.93               | 3.94               |
|                  | 37°F(2.8°C)                                        | 37730                               | 36975            | 36790            | 36643              | 36313              | 3.93                          | 3.97             | 3.97             | 3.98               | 4.00               |
|                  | 42°F(5.6°C)                                        | 43651                               | 42778            | 42565            | 42394              | 42013              | 4.07                          | 4.10             | 4.11             | 4.12               | 4.14               |
|                  | 44.6°F(7.0°C)                                      | 46020                               | 45100            | 44874            | 44695              | 44292              | 4.13                          | 4.16             | 4.17             | 4.18               | 4.19               |
|                  | 47°F(8.3°C)                                        | 49573                               | 48582            | 48339            | 48145              | 47712              | 4.21                          | 4.24             | 4.25             | 4.26               | 4.28               |
|                  | 52°F(11.1°C)                                       | 46675                               | 45742            | 45513            | 45331              | 44923              | 3.72                          | 3.75             | 3.76             | 3.76               | 3.78               |
|                  | 57°F(13.9°C)                                       | 43778                               | 42902            | 42688            | 42517              | 42134              | 3.23                          | 3.26             | 3.26             | 3.27               | 3.28               |
|                  | 59°F(15.0°C)                                       | 42619                               | 41766            | 41558            | 41391              | 41019              | 3.04                          | 3.06             | 3.07             | 3.07               | 3.08               |
|                  | 62°F(16.7°C)                                       | 40880                               | 40063            | 39862            | 39703              | 39346              | 2.74                          | 2.76             | 2.77             | 2.78               | 2.79               |
|                  | 64.4°F(18.0°C)                                     | 39489                               | 38700            | 38506            | 38352              | 38007              | 2.51                          | 2.53             | 2.53             | 2.54               | 2.55               |
|                  | 69.8°F(21.0°C)                                     | 36648                               | 35915            | 35735            | 35592              | 35272              | 1.98                          | 2.00             | 2.00             | 2.00               | 2.01               |
|                  | 75.2°F(24.0°C)                                     | 34392                               | 33705            | 33536            | 33402              | 33101              | 1.45                          | 1.46             | 1.47             | 1.47               | 1.48               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 28510                               | 27940            | 27800            | 27689              | 27440              | 5.04                          | 5.08             | 5.09             | 5.10               | 5.12               |
|                  | -4°F(-20.0°C)                                      | 32817                               | 32161            | 32000            | 31872              | 31585              | 4.89                          | 4.93             | 4.94             | 4.95               | 4.97               |
|                  | 0°F(-17.8°C)                                       | 36008                               | 35288            | 35111            | 34971              | 34656              | 4.87                          | 4.91             | 4.92             | 4.93               | 4.95               |
|                  | 5°F(-15.0°C)                                       | 39996                               | 39196            | 39000            | 38844              | 38494              | 4.86                          | 4.90             | 4.91             | 4.91               | 4.93               |
|                  | 14°F(-10.0°C)                                      | 41534                               | 40704            | 40500            | 40338              | 39975              | 5.09                          | 5.13             | 5.14             | 5.15               | 5.18               |
|                  | 17°F(-8.3°C)                                       | 42047                               | 41206            | 41000            | 40836              | 40468              | 5.17                          | 5.21             | 5.22             | 5.23               | 5.26               |
|                  | 22°F(-5.6°C)                                       | 42559                               | 41708            | 41500            | 41334              | 40962              | 5.00                          | 5.04             | 5.05             | 5.06               | 5.08               |
|                  | 27°F(-2.8°C)                                       | 43072                               | 42210            | 41999            | 41831              | 41455              | 4.83                          | 4.87             | 4.88             | 4.89               | 4.91               |
|                  | 32°F(0.0°C)                                        | 43584                               | 42713            | 42499            | 42329              | 41948              | 4.67                          | 4.70             | 4.71             | 4.72               | 4.74               |
|                  | 35°F(1.7°C)                                        | 43892                               | 43014            | 42799            | 42628              | 42244              | 4.56                          | 4.60             | 4.61             | 4.62               | 4.64               |
|                  | 37°F(2.8°C)                                        | 46832                               | 45895            | 45666            | 45483              | 45074              | 4.63                          | 4.67             | 4.68             | 4.68               | 4.70               |
|                  | 42°F(5.6°C)                                        | 54182                               | 53098            | 52833            | 52621              | 52148              | 4.79                          | 4.83             | 4.84             | 4.85               | 4.87               |
|                  | 44.6°F(7.0°C)                                      | 57122                               | 55980            | 55700            | 55477              | 54978              | 4.85                          | 4.89             | 4.90             | 4.91               | 4.93               |
|                  | 47°F(8.3°C)                                        | 61532                               | 60302            | 60000            | 59760              | 59222              | 4.95                          | 4.99             | 5.00             | 5.01               | 5.03               |
|                  | 52°F(11.1°C)                                       | 57935                               | 56777            | 56493            | 56267              | 55761              | 4.38                          | 4.41             | 4.42             | 4.43               | 4.45               |
|                  | 57°F(13.9°C)                                       | 54339                               | 53252            | 52986            | 52774              | 52299              | 3.80                          | 3.83             | 3.84             | 3.85               | 3.86               |
|                  | 59°F(15.0°C)                                       | 52900                               | 51842            | 51583            | 51377              | 50914              | 3.57                          | 3.60             | 3.61             | 3.61               | 3.63               |
|                  | 62°F(16.7°C)                                       | 50742                               | 49727            | 49479            | 49281              | 48837              | 3.23                          | 3.25             | 3.26             | 3.27               | 3.28               |
|                  | 64.4°F(18.0°C)                                     | 49016                               | 48035            | 47795            | 47604              | 47176              | 2.95                          | 2.97             | 2.98             | 2.99               | 3.00               |
|                  | 69.8°F(21.0°C)                                     | 45489                               | 44579            | 44356            | 44179              | 43781              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 75.2°F(24.0°C)                                     | 42689                               | 41836            | 41626            | 41460              | 41087              | 1.71                          | 1.72             | 1.73             | 1.73               | 1.74               |

## HEATING PERFORMANCE DUCTED

Table 30: HEATING PERFORMANCE 18K - DUCTED

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 24146                               | 23663            | 23544            | 14276              | 14147              | 2.96                          | 2.99             | 2.99             | 3.00               | 3.01               |
|                  | -4°F(-20.0°C)                                      | 21687                               | 21253            | 21147            | 12822              | 12707              | 0.91                          | 0.92             | 0.92             | 0.92               | 0.92               |
|                  | 0°F(-17.8°C)                                       | 21684                               | 21250            | 21144            | 12820              | 12705              | 0.92                          | 0.93             | 0.93             | 0.93               | 0.94               |
|                  | 5°F(-15.0°C)                                       | 21679                               | 21246            | 21140            | 12818              | 12702              | 0.94                          | 0.95             | 0.95             | 0.95               | 0.96               |
|                  | 14°F(-10.0°C)                                      | 21637                               | 21204            | 21098            | 12793              | 12678              | 0.93                          | 0.93             | 0.94             | 0.94               | 0.94               |
|                  | 17°F(-8.3°C)                                       | 21623                               | 21190            | 21084            | 12784              | 12669              | 0.92                          | 0.93             | 0.93             | 0.93               | 0.94               |
|                  | 22°F(-5.6°C)                                       | 21531                               | 21100            | 20995            | 12730              | 12615              | 0.91                          | 0.91             | 0.91             | 0.92               | 0.92               |
|                  | 27°F(-2.8°C)                                       | 21439                               | 21011            | 20906            | 12676              | 12562              | 0.89                          | 0.90             | 0.90             | 0.90               | 0.90               |
|                  | 32°F(-0.0°C)                                       | 21348                               | 20921            | 20816            | 12622              | 12508              | 0.87                          | 0.88             | 0.88             | 0.88               | 0.88               |
|                  | 35°F(1.7°C)                                        | 21293                               | 20867            | 20763            | 12589              | 12476              | 0.86                          | 0.87             | 0.87             | 0.87               | 0.87               |
|                  | 37°F(2.8°C)                                        | 20759                               | 20344            | 20242            | 12274              | 12163              | 0.87                          | 0.87             | 0.88             | 0.88               | 0.88               |
|                  | 42°F(5.6°C)                                        | 19426                               | 19038            | 18942            | 11486              | 11382              | 0.89                          | 0.89             | 0.90             | 0.90               | 0.90               |
|                  | 44.6°F(7.0°C)                                      | 18893                               | 18515            | 18422            | 11170              | 11070              | 0.89                          | 0.90             | 0.90             | 0.91               | 0.91               |
|                  | 47°F(8.3°C)                                        | 18093                               | 17731            | 17642            | 10697              | 10601              | 0.91                          | 0.91             | 0.91             | 0.92               | 0.92               |
|                  | 52°F(11.1°C)                                       | 18098                               | 17736            | 17647            | 10700              | 10604              | 0.95                          | 0.96             | 0.96             | 0.96               | 0.97               |
|                  | 57°F(13.9°C)                                       | 18103                               | 17741            | 17652            | 10703              | 10607              | 1.00                          | 1.01             | 1.01             | 1.01               | 1.02               |
|                  | 59°F(15.0°C)                                       | 18105                               | 17743            | 17654            | 10705              | 10608              | 1.02                          | 1.03             | 1.03             | 1.03               | 1.03               |
|                  | 62°F(16.7°C)                                       | 18108                               | 17746            | 17658            | 10706              | 10610              | 1.05                          | 1.05             | 1.06             | 1.06               | 1.06               |
|                  | 64.4°F(18.0°C)                                     | 18111                               | 17749            | 17660            | 10708              | 10612              | 1.07                          | 1.08             | 1.08             | 1.08               | 1.09               |
|                  | 69.8°F(21.0°C)                                     | 14055                               | 13774            | 13705            | 8310               | 8235               | 1.12                          | 1.13             | 1.13             | 1.13               | 1.14               |
|                  | 75.2°F(24.0°C)                                     | 7630                                | 7477             | 7440             | 4511               | 4470               | 1.17                          | 1.18             | 1.18             | 1.18               | 1.19               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 26732                               | 26198            | 26067            | 20257              | 20075              | 3.71                          | 3.73             | 3.74             | 3.75               | 3.77               |
|                  | -4°F(-20.0°C)                                      | 24011                               | 23530            | 23413            | 18195              | 18031              | 1.13                          | 1.14             | 1.15             | 1.15               | 1.15               |
|                  | 0°F(-17.8°C)                                       | 24007                               | 23527            | 23409            | 18192              | 18028              | 1.15                          | 1.16             | 1.17             | 1.17               | 1.17               |
|                  | 5°F(-15.0°C)                                       | 24002                               | 23522            | 23404            | 18188              | 18024              | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 14°F(-10.0°C)                                      | 23955                               | 23476            | 23359            | 18152              | 17989              | 1.16                          | 1.17             | 1.17             | 1.17               | 1.18               |
|                  | 17°F(-8.3°C)                                       | 23939                               | 23461            | 23343            | 18140              | 17977              | 1.15                          | 1.16             | 1.16             | 1.17               | 1.17               |
|                  | 22°F(-5.6°C)                                       | 23838                               | 23361            | 23244            | 18064              | 17901              | 1.13                          | 1.14             | 1.14             | 1.15               | 1.15               |
|                  | 27°F(-2.8°C)                                       | 23736                               | 23262            | 23145            | 17987              | 17825              | 1.11                          | 1.12             | 1.12             | 1.12               | 1.13               |
|                  | 32°F(-0.0°C)                                       | 23635                               | 23162            | 23046            | 17910              | 17749              | 1.09                          | 1.10             | 1.10             | 1.10               | 1.11               |
|                  | 35°F(1.7°C)                                        | 23574                               | 23102            | 22987            | 17864              | 17703              | 1.08                          | 1.08             | 1.09             | 1.09               | 1.09               |
|                  | 37°F(2.8°C)                                        | 22983                               | 22524            | 22411            | 17416              | 17259              | 1.08                          | 1.09             | 1.10             | 1.10               | 1.10               |
|                  | 42°F(5.6°C)                                        | 21507                               | 21077            | 20972            | 16298              | 16151              | 1.11                          | 1.12             | 1.12             | 1.12               | 1.13               |
|                  | 44.6°F(7.0°C)                                      | 20917                               | 20499            | 20396            | 15850              | 15708              | 1.12                          | 1.13             | 1.13             | 1.13               | 1.14               |
|                  | 47°F(8.3°C)                                        | 20031                               | 19631            | 19533            | 15179              | 15042              | 1.13                          | 1.14             | 1.14             | 1.15               | 1.15               |
|                  | 52°F(11.1°C)                                       | 20037                               | 19636            | 19538            | 15183              | 15047              | 1.19                          | 1.20             | 1.20             | 1.20               | 1.21               |
|                  | 57°F(13.9°C)                                       | 20043                               | 19642            | 19544            | 15188              | 15051              | 1.25                          | 1.26             | 1.26             | 1.26               | 1.27               |
|                  | 59°F(15.0°C)                                       | 20045                               | 19644            | 19546            | 15190              | 15053              | 1.27                          | 1.28             | 1.28             | 1.29               | 1.29               |
|                  | 62°F(16.7°C)                                       | 20049                               | 19648            | 19549            | 15192              | 15055              | 1.31                          | 1.32             | 1.32             | 1.32               | 1.33               |
|                  | 64.4°F(18.0°C)                                     | 20051                               | 19650            | 19552            | 15194              | 15057              | 1.33                          | 1.35             | 1.35             | 1.35               | 1.36               |
|                  | 69.8°F(21.0°C)                                     | 15561                               | 15250            | 15173            | 11792              | 11685              | 1.40                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 75.2°F(24.0°C)                                     | 8447                                | 8278             | 8237             | 6401               | 6343               | 1.46                          | 1.47             | 1.48             | 1.48               | 1.48               |

**Table 30: HEATING PERFORMANCE 18K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 29596                               | 29005            | 28860            | 28744              | 28485              | 4.63                          | 4.67             | 4.68             | 4.69               | 4.71               |
|                  | -4°F(-20.0°C)                                      | 26583                               | 26051            | 25921            | 25818              | 25585              | 1.42                          | 1.43             | 1.43             | 1.44               | 1.44               |
|                  | 0°F(-17.8°C)                                       | 26579                               | 26047            | 25917            | 25813              | 25581              | 1.44                          | 1.45             | 1.46             | 1.46               | 1.47               |
|                  | 5°F(-15.0°C)                                       | 26574                               | 26042            | 25912            | 25808              | 25576              | 1.47                          | 1.48             | 1.49             | 1.49               | 1.50               |
|                  | 14°F(-10.0°C)                                      | 26522                               | 25991            | 25861            | 25758              | 25526              | 1.45                          | 1.46             | 1.46             | 1.47               | 1.47               |
|                  | 17°F(-8.3°C)                                       | 26504                               | 25974            | 25844            | 25741              | 25509              | 1.44                          | 1.45             | 1.46             | 1.46               | 1.46               |
|                  | 22°F(-5.6°C)                                       | 26392                               | 25864            | 25735            | 25632              | 25401              | 1.41                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 27°F(-2.8°C)                                       | 26279                               | 25754            | 25625            | 25523              | 25293              | 1.39                          | 1.40             | 1.40             | 1.40               | 1.41               |
|                  | 32°F(-0.0°C)                                       | 26167                               | 25644            | 25515            | 25413              | 25185              | 1.36                          | 1.37             | 1.37             | 1.38               | 1.38               |
|                  | 35°F(1.7°C)                                        | 26100                               | 25578            | 25450            | 25348              | 25120              | 1.34                          | 1.35             | 1.36             | 1.36               | 1.37               |
|                  | 37°F(2.8°C)                                        | 25446                               | 24937            | 24812            | 24713              | 24491              | 1.36                          | 1.37             | 1.37             | 1.37               | 1.38               |
|                  | 42°F(5.6°C)                                        | 23812                               | 23335            | 23219            | 23126              | 22918              | 1.39                          | 1.40             | 1.40             | 1.40               | 1.41               |
|                  | 44.6°F(7.0°C)                                      | 23158                               | 22695            | 22581            | 22491              | 22289              | 1.40                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 47°F(8.3°C)                                        | 22177                               | 21734            | 21625            | 21539              | 21345              | 1.42                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 52°F(11.1°C)                                       | 22184                               | 21740            | 21631            | 21545              | 21351              | 1.49                          | 1.50             | 1.50             | 1.51               | 1.51               |
|                  | 57°F(13.9°C)                                       | 22190                               | 21746            | 21638            | 21551              | 21357              | 1.56                          | 1.57             | 1.58             | 1.58               | 1.59               |
|                  | 59°F(15.0°C)                                       | 22193                               | 21749            | 21640            | 21553              | 21359              | 1.59                          | 1.60             | 1.61             | 1.61               | 1.62               |
|                  | 62°F(16.7°C)                                       | 22196                               | 21753            | 21644            | 21557              | 21363              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 64.4°F(18.0°C)                                     | 22199                               | 21756            | 21647            | 21560              | 21366              | 1.67                          | 1.68             | 1.69             | 1.69               | 1.70               |
|                  | 69.8°F(21.0°C)                                     | 17228                               | 16883            | 16799            | 16732              | 16581              | 1.75                          | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 75.2°F(24.0°C)                                     | 9352                                | 9165             | 9119             | 9083               | 9001               | 1.83                          | 1.84             | 1.84             | 1.85               | 1.86               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 32767                               | 32112            | 31951            | 31824              | 31537              | 5.79                          | 5.84             | 5.85             | 5.86               | 5.88               |
|                  | -4°F(-20.0°C)                                      | 29431                               | 28843            | 28698            | 28584              | 28326              | 1.77                          | 1.79             | 1.79             | 1.79               | 1.80               |
|                  | 0°F(-17.8°C)                                       | 29427                               | 28838            | 28694            | 28579              | 28322              | 1.80                          | 1.82             | 1.82             | 1.82               | 1.83               |
|                  | 5°F(-15.0°C)                                       | 29421                               | 28832            | 28688            | 28573              | 28316              | 1.84                          | 1.86             | 1.86             | 1.86               | 1.87               |
|                  | 14°F(-10.0°C)                                      | 29363                               | 28776            | 28632            | 28517              | 28261              | 1.81                          | 1.83             | 1.83             | 1.83               | 1.84               |
|                  | 17°F(-8.3°C)                                       | 29344                               | 28757            | 28613            | 28499              | 28242              | 1.80                          | 1.82             | 1.82             | 1.82               | 1.83               |
|                  | 22°F(-5.6°C)                                       | 29219                               | 28635            | 28492            | 28378              | 28122              | 1.77                          | 1.78             | 1.79             | 1.79               | 1.80               |
|                  | 27°F(-2.8°C)                                       | 29095                               | 28513            | 28370            | 28257              | 28003              | 1.73                          | 1.75             | 1.75             | 1.76               | 1.76               |
|                  | 32°F(-0.0°C)                                       | 28970                               | 28391            | 28249            | 28136              | 27883              | 1.70                          | 1.71             | 1.72             | 1.72               | 1.73               |
|                  | 35°F(1.7°C)                                        | 28896                               | 28318            | 28176            | 28064              | 27811              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 37°F(2.8°C)                                        | 28172                               | 27609            | 27471            | 27361              | 27114              | 1.69                          | 1.71             | 1.71             | 1.72               | 1.72               |
|                  | 42°F(5.6°C)                                        | 26363                               | 25835            | 25706            | 25603              | 25373              | 1.73                          | 1.75             | 1.75             | 1.75               | 1.76               |
|                  | 44.6°F(7.0°C)                                      | 25639                               | 25126            | 25001            | 24901              | 24676              | 1.75                          | 1.76             | 1.76             | 1.77               | 1.78               |
|                  | 47°F(8.3°C)                                        | 24553                               | 24062            | 23942            | 23846              | 23632              | 1.77                          | 1.78             | 1.79             | 1.79               | 1.80               |
|                  | 52°F(11.1°C)                                       | 24560                               | 24069            | 23949            | 23853              | 23638              | 1.86                          | 1.88             | 1.88             | 1.88               | 1.89               |
|                  | 57°F(13.9°C)                                       | 24567                               | 24076            | 23956            | 23860              | 23645              | 1.95                          | 1.97             | 1.97             | 1.97               | 1.98               |
|                  | 59°F(15.0°C)                                       | 24570                               | 24079            | 23958            | 23863              | 23648              | 1.99                          | 2.00             | 2.01             | 2.01               | 2.02               |
|                  | 62°F(16.7°C)                                       | 24574                               | 24083            | 23963            | 23867              | 23652              | 2.04                          | 2.06             | 2.06             | 2.07               | 2.08               |
|                  | 64.4°F(18.0°C)                                     | 24578                               | 24086            | 23966            | 23870              | 23655              | 2.09                          | 2.10             | 2.11             | 2.11               | 2.12               |
|                  | 69.8°F(21.0°C)                                     | 19074                               | 18692            | 18599            | 18524              | 18358              | 2.18                          | 2.20             | 2.21             | 2.21               | 2.22               |
|                  | 75.2°F(24.0°C)                                     | 10354                               | 10147            | 10096            | 10056              | 9965               | 2.28                          | 2.30             | 2.31             | 2.31               | 2.32               |

**Table 31: HEATING PERFORMANCE 24K - DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 7665                                | 7512             | 7474             | 6727               | 6666               | 1.66                          | 1.67             | 1.67             | 1.68               | 1.68               |
|                  | -4°F(-20.0°C)                                      | 8494                                | 8324             | 8283             | 7455               | 7388               | 1.69                          | 1.70             | 1.71             | 1.71               | 1.72               |
|                  | 0°F(-17.8°C)                                       | 10105                               | 9903             | 9854             | 8869               | 8789               | 1.76                          | 1.78             | 1.78             | 1.78               | 1.79               |
|                  | 5°F(-15.0°C)                                       | 12119                               | 11877            | 11817            | 10636              | 10541              | 1.85                          | 1.86             | 1.87             | 1.87               | 1.88               |
|                  | 14°F(-10.0°C)                                      | 11995                               | 11755            | 11696            | 10527              | 10433              | 1.77                          | 1.79             | 1.79             | 1.79               | 1.80               |
|                  | 17°F(-8.3°C)                                       | 11954                               | 11715            | 11656            | 10491              | 10397              | 1.75                          | 1.76             | 1.76             | 1.77               | 1.77               |
|                  | 22°F(-5.6°C)                                       | 11620                               | 11387            | 11331            | 10198              | 10106              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 27°F(-2.8°C)                                       | 11286                               | 11060            | 11005            | 9905               | 9816               | 1.61                          | 1.62             | 1.63             | 1.63               | 1.64               |
|                  | 32°F(0.0°C)                                        | 10952                               | 10733            | 10679            | 9612               | 9526               | 1.54                          | 1.56             | 1.56             | 1.56               | 1.57               |
|                  | 35°F(1.7°C)                                        | 10752                               | 10537            | 10484            | 9436               | 9351               | 1.50                          | 1.51             | 1.52             | 1.52               | 1.53               |
|                  | 37°F(2.8°C)                                        | 12028                               | 11788            | 11729            | 10556              | 10461              | 1.53                          | 1.55             | 1.55             | 1.55               | 1.56               |
|                  | 42°F(5.6°C)                                        | 15219                               | 14915            | 14840            | 13357              | 13237              | 1.62                          | 1.63             | 1.63             | 1.64               | 1.64               |
|                  | 44.6°F(7.0°C)                                      | 16496                               | 16166            | 16085            | 14477              | 14347              | 1.65                          | 1.66             | 1.67             | 1.67               | 1.68               |
|                  | 47°F(8.3°C)                                        | 18410                               | 18042            | 17952            | 16158              | 16012              | 1.70                          | 1.71             | 1.72             | 1.72               | 1.73               |
|                  | 52°F(11.1°C)                                       | 16500                               | 16170            | 16089            | 14481              | 14351              | 1.50                          | 1.51             | 1.52             | 1.52               | 1.52               |
|                  | 57°F(13.9°C)                                       | 14589                               | 14297            | 14226            | 12804              | 12689              | 1.30                          | 1.31             | 1.31             | 1.32               | 1.32               |
|                  | 59°F(15.0°C)                                       | 13825                               | 13549            | 13481            | 12134              | 12024              | 1.22                          | 1.23             | 1.23             | 1.24               | 1.24               |
|                  | 62°F(16.7°C)                                       | 12679                               | 12425            | 12363            | 11127              | 11027              | 1.10                          | 1.11             | 1.11             | 1.12               | 1.12               |
|                  | 64.4°F(18.0°C)                                     | 11762                               | 11526            | 11469            | 10323              | 10230              | 1.01                          | 1.02             | 1.02             | 1.02               | 1.02               |
|                  | 69.8°F(21.0°C)                                     | 9698                                | 9504             | 9457             | 8512               | 8435               | 0.79                          | 0.80             | 0.80             | 0.80               | 0.81               |
|                  | 75.2°F(24.0°C)                                     | 7635                                | 7482             | 7445             | 6701               | 6641               | 0.58                          | 0.58             | 0.58             | 0.59               | 0.59               |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 9095                                | 8913             | 8869             | 8397               | 8322               | 1.84                          | 1.86             | 1.86             | 1.86               | 1.87               |
|                  | -4°F(-20.0°C)                                      | 10079                               | 9878             | 9828             | 9306               | 9222               | 1.88                          | 1.89             | 1.90             | 1.90               | 1.91               |
|                  | 0°F(-17.8°C)                                       | 11991                               | 11751            | 11693            | 11071              | 10971              | 1.96                          | 1.97             | 1.98             | 1.98               | 1.99               |
|                  | 5°F(-15.0°C)                                       | 14381                               | 14093            | 14023            | 13277              | 13158              | 2.06                          | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | 14°F(-10.0°C)                                      | 14234                               | 13949            | 13879            | 13141              | 13023              | 1.97                          | 1.99             | 1.99             | 1.99               | 2.00               |
|                  | 17°F(-8.3°C)                                       | 14185                               | 13901            | 13831            | 13096              | 12978              | 1.94                          | 1.96             | 1.96             | 1.96               | 1.97               |
|                  | 22°F(-5.6°C)                                       | 13788                               | 13513            | 13445            | 12730              | 12615              | 1.87                          | 1.88             | 1.88             | 1.89               | 1.90               |
|                  | 27°F(-2.8°C)                                       | 13392                               | 13124            | 13059            | 12364              | 12253              | 1.79                          | 1.80             | 1.81             | 1.81               | 1.82               |
|                  | 32°F(0.0°C)                                        | 12996                               | 12736            | 12672            | 11998              | 11890              | 1.71                          | 1.73             | 1.73             | 1.73               | 1.74               |
|                  | 35°F(1.7°C)                                        | 12758                               | 12503            | 12441            | 11779              | 11673              | 1.67                          | 1.68             | 1.69             | 1.69               | 1.70               |
|                  | 37°F(2.8°C)                                        | 14273                               | 13987            | 13917            | 13177              | 13059              | 1.71                          | 1.72             | 1.72             | 1.73               | 1.73               |
|                  | 42°F(5.6°C)                                        | 18059                               | 17698            | 17610            | 16673              | 16523              | 1.80                          | 1.81             | 1.81             | 1.82               | 1.83               |
|                  | 44.6°F(7.0°C)                                      | 19574                               | 19183            | 19087            | 18072              | 17909              | 1.83                          | 1.85             | 1.85             | 1.86               | 1.86               |
|                  | 47°F(8.3°C)                                        | 21846                               | 21409            | 21302            | 20169              | 19988              | 1.89                          | 1.90             | 1.91             | 1.91               | 1.92               |
|                  | 52°F(11.1°C)                                       | 19579                               | 19187            | 19091            | 18076              | 17913              | 1.67                          | 1.68             | 1.68             | 1.69               | 1.69               |
|                  | 57°F(13.9°C)                                       | 17312                               | 16966            | 16881            | 15983              | 15839              | 1.45                          | 1.46             | 1.46             | 1.46               | 1.47               |
|                  | 59°F(15.0°C)                                       | 16405                               | 16077            | 15997            | 15146              | 15010              | 1.36                          | 1.37             | 1.37             | 1.37               | 1.38               |
|                  | 62°F(16.7°C)                                       | 15045                               | 14744            | 14670            | 13890              | 13765              | 1.23                          | 1.24             | 1.24             | 1.24               | 1.25               |
|                  | 64.4°F(18.0°C)                                     | 13957                               | 13678            | 13609            | 12885              | 12769              | 1.12                          | 1.13             | 1.13             | 1.13               | 1.14               |
|                  | 69.8°F(21.0°C)                                     | 11508                               | 11278            | 11222            | 10625              | 10529              | 0.88                          | 0.89             | 0.89             | 0.89               | 0.90               |
|                  | 75.2°F(24.0°C)                                     | 9060                                | 8879             | 8834             | 8365               | 8289               | 0.64                          | 0.65             | 0.65             | 0.65               | 0.65               |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 31: HEATING PERFORMANCE 24K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10793                               | 10577            | 10524            | 10482              | 10387              | 2.05                          | 2.06             | 2.07             | 2.07               | 2.08               |
|                  | -4°F(-20.0°C)                                      | 11960                               | 11721            | 11663            | 11616              | 11511              | 2.09                          | 2.10             | 2.11             | 2.11               | 2.12               |
|                  | 0°F(-17.8°C)                                       | 14229                               | 13944            | 13875            | 13819              | 13695              | 2.17                          | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 5°F(-15.0°C)                                       | 17065                               | 16723            | 16640            | 16573              | 16424              | 2.28                          | 2.30             | 2.31             | 2.31               | 2.32               |
|                  | 14°F(-10.0°C)                                      | 16890                               | 16552            | 16469            | 16404              | 16256              | 2.19                          | 2.21             | 2.21             | 2.21               | 2.22               |
|                  | 17°F(-8.3°C)                                       | 16832                               | 16495            | 16413            | 16347              | 16200              | 2.16                          | 2.17             | 2.18             | 2.18               | 2.19               |
|                  | 22°F(-5.6°C)                                       | 16362                               | 16034            | 15954            | 15890              | 15747              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 27°F(-2.8°C)                                       | 15891                               | 15574            | 15496            | 15434              | 15295              | 1.99                          | 2.00             | 2.01             | 2.01               | 2.02               |
|                  | 32°F(-0.0°C)                                       | 15421                               | 15113            | 15037            | 14977              | 14842              | 1.90                          | 1.92             | 1.92             | 1.93               | 1.94               |
|                  | 35°F(1.7°C)                                        | 15139                               | 14836            | 14762            | 14703              | 14571              | 1.85                          | 1.87             | 1.87             | 1.88               | 1.88               |
|                  | 37°F(2.8°C)                                        | 16936                               | 16598            | 16515            | 16449              | 16301              | 1.89                          | 1.91             | 1.91             | 1.92               | 1.93               |
|                  | 42°F(5.6°C)                                        | 21430                               | 21001            | 20896            | 20813              | 20625              | 2.00                          | 2.01             | 2.02             | 2.02               | 2.03               |
|                  | 44.6°F(7.0°C)                                      | 23227                               | 22763            | 22649            | 22558              | 22355              | 2.04                          | 2.05             | 2.06             | 2.06               | 2.07               |
|                  | 47°F(8.3°C)                                        | 25923                               | 25405            | 25278            | 25176              | 24950              | 2.10                          | 2.11             | 2.12             | 2.12               | 2.13               |
|                  | 52°F(11.1°C)                                       | 23233                               | 22768            | 22654            | 22564              | 22361              | 1.85                          | 1.87             | 1.87             | 1.87               | 1.88               |
|                  | 57°F(13.9°C)                                       | 20543                               | 20132            | 20031            | 19951              | 19772              | 1.61                          | 1.62             | 1.62             | 1.63               | 1.63               |
|                  | 59°F(15.0°C)                                       | 19467                               | 19077            | 18982            | 18906              | 18736              | 1.51                          | 1.52             | 1.52             | 1.53               | 1.53               |
|                  | 62°F(16.7°C)                                       | 17853                               | 17496            | 17408            | 17338              | 17182              | 1.36                          | 1.37             | 1.38             | 1.38               | 1.38               |
|                  | 64.4°F(18.0°C)                                     | 16561                               | 16230            | 16149            | 16084              | 15940              | 1.24                          | 1.25             | 1.26             | 1.26               | 1.26               |
|                  | 69.8°F(21.0°C)                                     | 13656                               | 13383            | 13316            | 13263              | 13143              | 0.98                          | 0.99             | 0.99             | 0.99               | 1.00               |
|                  | 75.2°F(24.0°C)                                     | 10751                               | 10536            | 10483            | 10441              | 10347              | 0.71                          | 0.72             | 0.72             | 0.72               | 0.73               |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 12807                               | 12551            | 12488            | 12438              | 12326              | 2.27                          | 2.29             | 2.30             | 2.30               | 2.31               |
|                  | -4°F(-20.0°C)                                      | 14192                               | 13909            | 13839            | 13784              | 13660              | 2.32                          | 2.34             | 2.34             | 2.35               | 2.36               |
|                  | 0°F(-17.8°C)                                       | 16884                               | 16547            | 16464            | 16398              | 16251              | 2.42                          | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | 5°F(-15.0°C)                                       | 20249                               | 19844            | 19745            | 19666              | 19489              | 2.54                          | 2.56             | 2.56             | 2.57               | 2.58               |
|                  | 14°F(-10.0°C)                                      | 20042                               | 19641            | 19543            | 19465              | 19290              | 2.43                          | 2.45             | 2.46             | 2.46               | 2.47               |
|                  | 17°F(-8.3°C)                                       | 19973                               | 19574            | 19476            | 19398              | 19223              | 2.40                          | 2.42             | 2.42             | 2.42               | 2.43               |
|                  | 22°F(-5.6°C)                                       | 19415                               | 19027            | 18932            | 18856              | 18686              | 2.30                          | 2.32             | 2.33             | 2.33               | 2.34               |
|                  | 27°F(-2.8°C)                                       | 18857                               | 18480            | 18388            | 18314              | 18149              | 2.21                          | 2.23             | 2.23             | 2.24               | 2.25               |
|                  | 32°F(-0.0°C)                                       | 18299                               | 17933            | 17844            | 17772              | 17612              | 2.12                          | 2.13             | 2.14             | 2.14               | 2.15               |
|                  | 35°F(1.7°C)                                        | 17965                               | 17605            | 17517            | 17447              | 17290              | 2.06                          | 2.08             | 2.08             | 2.09               | 2.09               |
|                  | 37°F(2.8°C)                                        | 20097                               | 19695            | 19597            | 19518              | 19343              | 2.11                          | 2.12             | 2.13             | 2.13               | 2.14               |
|                  | 42°F(5.6°C)                                        | 25429                               | 24920            | 24796            | 24697              | 24474              | 2.22                          | 2.24             | 2.24             | 2.24               | 2.25               |
|                  | 44.6°F(7.0°C)                                      | 27562                               | 27011            | 26875            | 26768              | 26527              | 2.26                          | 2.28             | 2.29             | 2.29               | 2.30               |
|                  | 47°F(8.3°C)                                        | 30761                               | 30146            | 29995            | 29875              | 29606              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 52°F(11.1°C)                                       | 27569                               | 27017            | 26882            | 26775              | 26534              | 2.06                          | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | 57°F(13.9°C)                                       | 24377                               | 23889            | 23770            | 23674              | 23461              | 1.79                          | 1.80             | 1.80             | 1.81               | 1.81               |
|                  | 59°F(15.0°C)                                       | 23100                               | 22638            | 22524            | 22434              | 22232              | 1.68                          | 1.69             | 1.69             | 1.70               | 1.70               |
|                  | 62°F(16.7°C)                                       | 21184                               | 20761            | 20657            | 20574              | 20389              | 1.51                          | 1.53             | 1.53             | 1.53               | 1.54               |
|                  | 64.4°F(18.0°C)                                     | 19652                               | 19259            | 19163            | 19086              | 18914              | 1.38                          | 1.39             | 1.40             | 1.40               | 1.40               |
|                  | 69.8°F(21.0°C)                                     | 16205                               | 15881            | 15801            | 15738              | 15596              | 1.09                          | 1.10             | 1.10             | 1.10               | 1.11               |
|                  | 75.2°F(24.0°C)                                     | 12757                               | 12502            | 12439            | 12390              | 12278              | 0.79                          | 0.80             | 0.80             | 0.80               | 0.81               |

**Table 32: HEATING PERFORMANCE 30K - DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 735              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10882                               | 10664            | 10611            | 9550               | 9464               | 2.42                          | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | -4°F(-20.0°C)                                      | 13516                               | 13246            | 13180            | 11862              | 11756              | 2.55                          | 2.57             | 2.57             | 2.58               | 2.59               |
|                  | 0°F(-17.8°C)                                       | 14813                               | 14516            | 14444            | 13000              | 12883              | 2.51                          | 2.53             | 2.54             | 2.54               | 2.55               |
|                  | 5°F(-15.0°C)                                       | 16433                               | 16105            | 16024            | 14423              | 14293              | 2.47                          | 2.49             | 2.49             | 2.50               | 2.51               |
|                  | 14°F(-10.0°C)                                      | 17091                               | 16750            | 16666            | 15000              | 14865              | 2.48                          | 2.50             | 2.51             | 2.51               | 2.52               |
|                  | 17°F(-8.3°C)                                       | 17311                               | 16965            | 16880            | 15193              | 15056              | 2.49                          | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | 22°F(-5.6°C)                                       | 18496                               | 18126            | 18035            | 16233              | 16087              | 2.41                          | 2.43             | 2.43             | 2.44               | 2.44               |
|                  | 27°F(-2.8°C)                                       | 19681                               | 19287            | 19191            | 17273              | 17117              | 2.33                          | 2.34             | 2.35             | 2.35               | 2.36               |
|                  | 32°F(0.0°C)                                        | 20866                               | 20448            | 20346            | 18313              | 18148              | 2.25                          | 2.26             | 2.27             | 2.27               | 2.28               |
|                  | 35°F(1.7°C)                                        | 21577                               | 21145            | 21039            | 18937              | 18766              | 2.20                          | 2.22             | 2.22             | 2.22               | 2.23               |
|                  | 37°F(2.8°C)                                        | 22154                               | 21711            | 21602            | 19443              | 19268              | 2.23                          | 2.25             | 2.26             | 2.26               | 2.27               |
|                  | 42°F(5.6°C)                                        | 23597                               | 23125            | 23010            | 20710              | 20524              | 2.32                          | 2.34             | 2.35             | 2.35               | 2.36               |
|                  | 44.6°F(7.0°C)                                      | 24175                               | 23691            | 23573            | 21217              | 21026              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.40               |
|                  | 47°F(8.3°C)                                        | 25041                               | 24540            | 24417            | 21977              | 21779              | 2.41                          | 2.43             | 2.44             | 2.44               | 2.45               |
|                  | 52°F(11.1°C)                                       | 26718                               | 26183            | 26052            | 23449              | 23238              | 2.32                          | 2.33             | 2.34             | 2.34               | 2.35               |
|                  | 57°F(13.9°C)                                       | 28395                               | 27827            | 27687            | 24920              | 24696              | 2.22                          | 2.24             | 2.24             | 2.24               | 2.25               |
|                  | 59°F(15.0°C)                                       | 29065                               | 28484            | 28342            | 25509              | 25279              | 2.18                          | 2.20             | 2.20             | 2.20               | 2.21               |
|                  | 62°F(16.7°C)                                       | 30072                               | 29470            | 29323            | 26392              | 26155              | 2.12                          | 2.14             | 2.14             | 2.14               | 2.15               |
|                  | 64.4°F(18.0°C)                                     | 30876                               | 30259            | 30108            | 27099              | 26855              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.10               |
|                  | 69.8°F(21.0°C)                                     | 32688                               | 32034            | 31874            | 28688              | 28430              | 1.96                          | 1.98             | 1.98             | 1.99               | 2.00               |
|                  | 75.2°F(24.0°C)                                     | 34499                               | 33809            | 33640            | 30278              | 30005              | 1.86                          | 1.87             | 1.88             | 1.88               | 1.89               |
| 1029             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 12912                               | 12654            | 12591            | 11921              | 11814              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | -4°F(-20.0°C)                                      | 16038                               | 15718            | 15639            | 14807              | 14674              | 3.00                          | 3.02             | 3.03             | 3.03               | 3.05               |
|                  | 0°F(-17.8°C)                                       | 17577                               | 17226            | 17139            | 16228              | 16082              | 2.96                          | 2.98             | 2.99             | 2.99               | 3.00               |
|                  | 5°F(-15.0°C)                                       | 19500                               | 19110            | 19015            | 18003              | 17841              | 2.90                          | 2.92             | 2.93             | 2.94               | 2.95               |
|                  | 14°F(-10.0°C)                                      | 20281                               | 19875            | 19776            | 18724              | 18556              | 2.92                          | 2.94             | 2.95             | 2.95               | 2.97               |
|                  | 17°F(-8.3°C)                                       | 20541                               | 20131            | 20030            | 18965              | 18794              | 2.92                          | 2.95             | 2.95             | 2.96               | 2.97               |
|                  | 22°F(-5.6°C)                                       | 21947                               | 21509            | 21401            | 20263              | 20080              | 2.83                          | 2.85             | 2.86             | 2.86               | 2.88               |
|                  | 27°F(-2.8°C)                                       | 23354                               | 22887            | 22772            | 21561              | 21367              | 2.74                          | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 32°F(0.0°C)                                        | 24760                               | 24265            | 24143            | 22859              | 22653              | 2.64                          | 2.66             | 2.67             | 2.67               | 2.69               |
|                  | 35°F(1.7°C)                                        | 25603                               | 25091            | 24966            | 23638              | 23425              | 2.59                          | 2.61             | 2.61             | 2.62               | 2.63               |
|                  | 37°F(2.8°C)                                        | 26288                               | 25763            | 25634            | 24271              | 24052              | 2.63                          | 2.65             | 2.66             | 2.66               | 2.67               |
|                  | 42°F(5.6°C)                                        | 28001                               | 27441            | 27304            | 25852              | 25619              | 2.73                          | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F(7.0°C)                                      | 28686                               | 28112            | 27972            | 26484              | 26246              | 2.78                          | 2.80             | 2.81             | 2.81               | 2.82               |
|                  | 47°F(8.3°C)                                        | 29714                               | 29119            | 28974            | 27433              | 27186              | 2.84                          | 2.86             | 2.87             | 2.88               | 2.89               |
|                  | 52°F(11.1°C)                                       | 31704                               | 31070            | 30914            | 29270              | 29007              | 2.72                          | 2.75             | 2.75             | 2.76               | 2.77               |
|                  | 57°F(13.9°C)                                       | 33694                               | 33020            | 32855            | 31107              | 30827              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 59°F(15.0°C)                                       | 34490                               | 33800            | 33631            | 31842              | 31556              | 2.56                          | 2.58             | 2.59             | 2.59               | 2.60               |
|                  | 62°F(16.7°C)                                       | 35684                               | 34970            | 34795            | 32944              | 32648              | 2.49                          | 2.51             | 2.52             | 2.52               | 2.53               |
|                  | 64.4°F(18.0°C)                                     | 36639                               | 35906            | 35726            | 33826              | 33522              | 2.44                          | 2.46             | 2.46             | 2.47               | 2.48               |
|                  | 69.8°F(21.0°C)                                     | 38788                               | 38012            | 37822            | 35811              | 35488              | 2.31                          | 2.33             | 2.33             | 2.34               | 2.35               |
|                  | 75.2°F(24.0°C)                                     | 40937                               | 40118            | 39918            | 37795              | 37455              | 2.19                          | 2.20             | 2.21             | 2.21               | 2.22               |

**Table 32: HEATING PERFORMANCE 30K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1324             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 15322                               | 15016            | 14941            | 14881              | 14747              | 3.16                          | 3.18             | 3.19             | 3.20               | 3.21               |
|                  | -4°F(-20.0°C)                                      | 19032                               | 18651            | 18558            | 18484              | 18317              | 3.33                          | 3.36             | 3.37             | 3.37               | 3.39               |
|                  | 0°F(-17.8°C)                                       | 20857                               | 20440            | 20338            | 20257              | 20074              | 3.28                          | 3.31             | 3.32             | 3.32               | 3.34               |
|                  | 5°F(-15.0°C)                                       | 23139                               | 22677            | 22563            | 22473              | 22271              | 3.22                          | 3.25             | 3.26             | 3.26               | 3.28               |
|                  | 14°F(-10.0°C)                                      | 24066                               | 23585            | 23467            | 23373              | 23163              | 3.24                          | 3.27             | 3.28             | 3.28               | 3.30               |
|                  | 17°F(-8.3°C)                                       | 24375                               | 23887            | 23768            | 23673              | 23460              | 3.25                          | 3.28             | 3.28             | 3.29               | 3.30               |
|                  | 22°F(-5.6°C)                                       | 26043                               | 25523            | 25395            | 25293              | 25066              | 3.15                          | 3.17             | 3.18             | 3.18               | 3.20               |
|                  | 27°F(-2.8°C)                                       | 27712                               | 27158            | 27022            | 26914              | 26672              | 3.04                          | 3.07             | 3.07             | 3.08               | 3.09               |
|                  | 32°F(-0.0°C)                                       | 29380                               | 28793            | 28649            | 28534              | 28277              | 2.94                          | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 35°F(1.7°C)                                        | 30382                               | 29774            | 29625            | 29507              | 29241              | 2.87                          | 2.90             | 2.90             | 2.91               | 2.92               |
|                  | 37°F(2.8°C)                                        | 31194                               | 30571            | 30418            | 30296              | 30023              | 2.92                          | 2.94             | 2.95             | 2.96               | 2.97               |
|                  | 42°F(5.6°C)                                        | 33227                               | 32562            | 32399            | 32270              | 31979              | 3.04                          | 3.06             | 3.07             | 3.08               | 3.09               |
|                  | 44.6°F(7.0°C)                                      | 34040                               | 33359            | 33192            | 33059              | 32762              | 3.09                          | 3.11             | 3.12             | 3.12               | 3.14               |
|                  | 47°F(8.3°C)                                        | 35259                               | 34554            | 34381            | 34243              | 33935              | 3.16                          | 3.18             | 3.19             | 3.20               | 3.21               |
|                  | 52°F(11.1°C)                                       | 37620                               | 36868            | 36684            | 36537              | 36208              | 3.03                          | 3.05             | 3.06             | 3.06               | 3.08               |
|                  | 57°F(13.9°C)                                       | 39982                               | 39182            | 38986            | 38830              | 38481              | 2.90                          | 2.92             | 2.93             | 2.93               | 2.95               |
|                  | 59°F(15.0°C)                                       | 40926                               | 40108            | 39907            | 39747              | 39390              | 2.85                          | 2.87             | 2.88             | 2.88               | 2.89               |
|                  | 62°F(16.7°C)                                       | 42343                               | 41496            | 41289            | 41123              | 40753              | 2.77                          | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 64.4°F(18.0°C)                                     | 43476                               | 42607            | 42394            | 42224              | 41844              | 2.71                          | 2.73             | 2.73             | 2.74               | 2.75               |
|                  | 69.8°F(21.0°C)                                     | 46027                               | 45106            | 44881            | 44701              | 44299              | 2.57                          | 2.59             | 2.59             | 2.60               | 2.61               |
|                  | 75.2°F(24.0°C)                                     | 48577                               | 47605            | 47367            | 47178              | 46753              | 2.43                          | 2.45             | 2.45             | 2.46               | 2.47               |
| 1618             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 18181                               | 17818            | 17729            | 17658              | 17499              | 3.51                          | 3.54             | 3.55             | 3.55               | 3.57               |
|                  | -4°F(-20.0°C)                                      | 22583                               | 22132            | 22021            | 21933              | 21736              | 3.70                          | 3.73             | 3.74             | 3.75               | 3.76               |
|                  | 0°F(-17.8°C)                                       | 24750                               | 24255            | 24134            | 24037              | 23821              | 3.65                          | 3.68             | 3.69             | 3.69               | 3.71               |
|                  | 5°F(-15.0°C)                                       | 27458                               | 26909            | 26774            | 26667              | 26427              | 3.58                          | 3.61             | 3.62             | 3.63               | 3.64               |
|                  | 14°F(-10.0°C)                                      | 28557                               | 27986            | 27846            | 27735              | 27485              | 3.60                          | 3.63             | 3.64             | 3.65               | 3.66               |
|                  | 17°F(-8.3°C)                                       | 28924                               | 28345            | 28204            | 28091              | 27838              | 3.61                          | 3.64             | 3.65             | 3.65               | 3.67               |
|                  | 22°F(-5.6°C)                                       | 30904                               | 30286            | 30134            | 30014              | 29744              | 3.49                          | 3.52             | 3.53             | 3.54               | 3.55               |
|                  | 27°F(-2.8°C)                                       | 32884                               | 32226            | 32065            | 31937              | 31649              | 3.38                          | 3.41             | 3.41             | 3.42               | 3.43               |
|                  | 32°F(-0.0°C)                                       | 34864                               | 34166            | 33995            | 33859              | 33555              | 3.26                          | 3.29             | 3.30             | 3.30               | 3.32               |
|                  | 35°F(1.7°C)                                        | 36052                               | 35330            | 35154            | 35013              | 34698              | 3.19                          | 3.22             | 3.23             | 3.23               | 3.24               |
|                  | 37°F(2.8°C)                                        | 37016                               | 36276            | 36094            | 35950              | 35626              | 3.25                          | 3.27             | 3.28             | 3.28               | 3.30               |
|                  | 42°F(5.6°C)                                        | 39428                               | 38639            | 38446            | 38292              | 37947              | 3.38                          | 3.40             | 3.41             | 3.42               | 3.43               |
|                  | 44.6°F(7.0°C)                                      | 40392                               | 39584            | 39386            | 39229              | 38876              | 3.43                          | 3.46             | 3.46             | 3.47               | 3.48               |
|                  | 47°F(8.3°C)                                        | 41839                               | 41002            | 40797            | 40634              | 40268              | 3.51                          | 3.54             | 3.54             | 3.55               | 3.56               |
|                  | 52°F(11.1°C)                                       | 44641                               | 43748            | 43530            | 43355              | 42965              | 3.36                          | 3.39             | 3.40             | 3.40               | 3.42               |
|                  | 57°F(13.9°C)                                       | 47443                               | 46494            | 46262            | 46077              | 45662              | 3.22                          | 3.25             | 3.25             | 3.26               | 3.27               |
|                  | 59°F(15.0°C)                                       | 48564                               | 47593            | 47355            | 47165              | 46741              | 3.16                          | 3.19             | 3.20             | 3.20               | 3.21               |
|                  | 62°F(16.7°C)                                       | 50245                               | 49240            | 48994            | 48798              | 48359              | 3.08                          | 3.10             | 3.11             | 3.11               | 3.13               |
|                  | 64.4°F(18.0°C)                                     | 51590                               | 50558            | 50306            | 50104              | 49653              | 3.01                          | 3.03             | 3.04             | 3.04               | 3.06               |
|                  | 69.8°F(21.0°C)                                     | 54616                               | 53524            | 53256            | 53043              | 52566              | 2.85                          | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | 75.2°F(24.0°C)                                     | 57642                               | 56490            | 56207            | 55982              | 55478              | 2.70                          | 2.72             | 2.73             | 2.73               | 2.74               |

**Table 33: HEATING PERFORMANCE 36K - DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 735              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10882                               | 10664            | 10611            | 9550               | 9464               | 2.42                          | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | -4°F(-20.0°C)                                      | 13516                               | 13246            | 13180            | 11862              | 11756              | 2.55                          | 2.57             | 2.57             | 2.58               | 2.59               |
|                  | 0°F(-17.8°C)                                       | 14813                               | 14516            | 14444            | 13000              | 12883              | 2.51                          | 2.53             | 2.54             | 2.54               | 2.55               |
|                  | 5°F(-15.0°C)                                       | 16433                               | 16105            | 16024            | 14423              | 14293              | 2.47                          | 2.49             | 2.49             | 2.50               | 2.51               |
|                  | 14°F(-10.0°C)                                      | 17091                               | 16750            | 16666            | 15000              | 14865              | 2.48                          | 2.50             | 2.51             | 2.51               | 2.52               |
|                  | 17°F(-8.3°C)                                       | 17311                               | 16965            | 16880            | 15193              | 15056              | 2.49                          | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | 22°F(-5.6°C)                                       | 18496                               | 18126            | 18035            | 16233              | 16087              | 2.41                          | 2.43             | 2.43             | 2.44               | 2.44               |
|                  | 27°F(-2.8°C)                                       | 19681                               | 19287            | 19191            | 17273              | 17117              | 2.33                          | 2.34             | 2.35             | 2.35               | 2.36               |
|                  | 32°F(0.0°C)                                        | 20866                               | 20448            | 20346            | 18313              | 18148              | 2.25                          | 2.26             | 2.27             | 2.27               | 2.28               |
|                  | 35°F(1.7°C)                                        | 21577                               | 21145            | 21039            | 18937              | 18766              | 2.20                          | 2.22             | 2.22             | 2.22               | 2.23               |
|                  | 37°F(2.8°C)                                        | 22154                               | 21711            | 21602            | 19443              | 19268              | 2.23                          | 2.25             | 2.26             | 2.26               | 2.27               |
|                  | 42°F(5.6°C)                                        | 23597                               | 23125            | 23010            | 20710              | 20524              | 2.32                          | 2.34             | 2.35             | 2.35               | 2.36               |
|                  | 44.6°F(7.0°C)                                      | 24175                               | 23691            | 23573            | 21217              | 21026              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.40               |
|                  | 47°F(8.3°C)                                        | 25041                               | 24540            | 24417            | 21977              | 21779              | 2.41                          | 2.43             | 2.44             | 2.44               | 2.45               |
|                  | 52°F(11.1°C)                                       | 26718                               | 26183            | 26052            | 23449              | 23238              | 2.32                          | 2.33             | 2.34             | 2.34               | 2.35               |
|                  | 57°F(13.9°C)                                       | 28395                               | 27827            | 27687            | 24920              | 24696              | 2.22                          | 2.24             | 2.24             | 2.24               | 2.25               |
|                  | 59°F(15.0°C)                                       | 29065                               | 28484            | 28342            | 25509              | 25279              | 2.18                          | 2.20             | 2.20             | 2.20               | 2.21               |
|                  | 62°F(16.7°C)                                       | 30072                               | 29470            | 29323            | 26392              | 26155              | 2.12                          | 2.14             | 2.14             | 2.14               | 2.15               |
|                  | 64.4°F(18.0°C)                                     | 30876                               | 30259            | 30108            | 27099              | 26855              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.10               |
|                  | 69.8°F(21.0°C)                                     | 32688                               | 32034            | 31874            | 28688              | 28430              | 1.96                          | 1.98             | 1.98             | 1.99               | 2.00               |
|                  | 75.2°F(24.0°C)                                     | 34499                               | 33809            | 33640            | 30278              | 30005              | 1.86                          | 1.87             | 1.88             | 1.88               | 1.89               |
| 1029             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 12912                               | 12654            | 12591            | 11921              | 11814              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | -4°F(-20.0°C)                                      | 16038                               | 15718            | 15639            | 14807              | 14674              | 3.00                          | 3.02             | 3.03             | 3.03               | 3.05               |
|                  | 0°F(-17.8°C)                                       | 17577                               | 17226            | 17139            | 16228              | 16082              | 2.96                          | 2.98             | 2.99             | 2.99               | 3.00               |
|                  | 5°F(-15.0°C)                                       | 19500                               | 19110            | 19015            | 18003              | 17841              | 2.90                          | 2.92             | 2.93             | 2.94               | 2.95               |
|                  | 14°F(-10.0°C)                                      | 20281                               | 19875            | 19776            | 18724              | 18556              | 2.92                          | 2.94             | 2.95             | 2.95               | 2.97               |
|                  | 17°F(-8.3°C)                                       | 20541                               | 20131            | 20030            | 18965              | 18794              | 2.92                          | 2.95             | 2.95             | 2.96               | 2.97               |
|                  | 22°F(-5.6°C)                                       | 21947                               | 21509            | 21401            | 20263              | 20080              | 2.83                          | 2.85             | 2.86             | 2.86               | 2.88               |
|                  | 27°F(-2.8°C)                                       | 23354                               | 22887            | 22772            | 21561              | 21367              | 2.74                          | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 32°F(0.0°C)                                        | 24760                               | 24265            | 24143            | 22859              | 22653              | 2.64                          | 2.66             | 2.67             | 2.67               | 2.69               |
|                  | 35°F(1.7°C)                                        | 25603                               | 25091            | 24966            | 23638              | 23425              | 2.59                          | 2.61             | 2.61             | 2.62               | 2.63               |
|                  | 37°F(2.8°C)                                        | 26288                               | 25763            | 25634            | 24271              | 24052              | 2.63                          | 2.65             | 2.66             | 2.66               | 2.67               |
|                  | 42°F(5.6°C)                                        | 28001                               | 27441            | 27304            | 25852              | 25619              | 2.73                          | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F(7.0°C)                                      | 28686                               | 28112            | 27972            | 26484              | 26246              | 2.78                          | 2.80             | 2.81             | 2.81               | 2.82               |
|                  | 47°F(8.3°C)                                        | 29714                               | 29119            | 28974            | 27433              | 27186              | 2.84                          | 2.86             | 2.87             | 2.88               | 2.89               |
|                  | 52°F(11.1°C)                                       | 31704                               | 31070            | 30914            | 29270              | 29007              | 2.72                          | 2.75             | 2.75             | 2.76               | 2.77               |
|                  | 57°F(13.9°C)                                       | 33694                               | 33020            | 32855            | 31107              | 30827              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 59°F(15.0°C)                                       | 34490                               | 33800            | 33631            | 31842              | 31556              | 2.56                          | 2.58             | 2.59             | 2.59               | 2.60               |
|                  | 62°F(16.7°C)                                       | 35684                               | 34970            | 34795            | 32944              | 32648              | 2.49                          | 2.51             | 2.52             | 2.52               | 2.53               |
|                  | 64.4°F(18.0°C)                                     | 36639                               | 35906            | 35726            | 33826              | 33522              | 2.44                          | 2.46             | 2.46             | 2.47               | 2.48               |
|                  | 69.8°F(21.0°C)                                     | 38788                               | 38012            | 37822            | 35811              | 35488              | 2.31                          | 2.33             | 2.33             | 2.34               | 2.35               |
|                  | 75.2°F(24.0°C)                                     | 40937                               | 40118            | 39918            | 37795              | 37455              | 2.19                          | 2.20             | 2.21             | 2.21               | 2.22               |

**Table 33: HEATING PERFORMANCE 36K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1324             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 15322                               | 15016            | 14941            | 14881              | 14747              | 3.16                          | 3.18             | 3.19             | 3.20               | 3.21               |
|                  | -4°F(-20.0°C)                                      | 19032                               | 18651            | 18558            | 18484              | 18317              | 3.33                          | 3.36             | 3.37             | 3.37               | 3.39               |
|                  | 0°F(-17.8°C)                                       | 20857                               | 20440            | 20338            | 20257              | 20074              | 3.28                          | 3.31             | 3.32             | 3.32               | 3.34               |
|                  | 5°F(-15.0°C)                                       | 23139                               | 22677            | 22563            | 22473              | 22271              | 3.22                          | 3.25             | 3.26             | 3.26               | 3.28               |
|                  | 14°F(-10.0°C)                                      | 24066                               | 23585            | 23467            | 23373              | 23163              | 3.24                          | 3.27             | 3.28             | 3.28               | 3.30               |
|                  | 17°F(-8.3°C)                                       | 24375                               | 23887            | 23768            | 23673              | 23460              | 3.25                          | 3.28             | 3.28             | 3.29               | 3.30               |
|                  | 22°F(-5.6°C)                                       | 26043                               | 25523            | 25395            | 25293              | 25066              | 3.15                          | 3.17             | 3.18             | 3.18               | 3.20               |
|                  | 27°F(-2.8°C)                                       | 27712                               | 27158            | 27022            | 26914              | 26672              | 3.04                          | 3.07             | 3.07             | 3.08               | 3.09               |
|                  | 32°F(-0.0°C)                                       | 29380                               | 28793            | 28649            | 28534              | 28277              | 2.94                          | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 35°F(1.7°C)                                        | 30382                               | 29774            | 29625            | 29507              | 29241              | 2.87                          | 2.90             | 2.90             | 2.91               | 2.92               |
|                  | 37°F(2.8°C)                                        | 31194                               | 30571            | 30418            | 30296              | 30023              | 2.92                          | 2.94             | 2.95             | 2.96               | 2.97               |
|                  | 42°F(5.6°C)                                        | 33227                               | 32562            | 32399            | 32270              | 31979              | 3.04                          | 3.06             | 3.07             | 3.08               | 3.09               |
|                  | 44.6°F(7.0°C)                                      | 34040                               | 33359            | 33192            | 33059              | 32762              | 3.09                          | 3.11             | 3.12             | 3.12               | 3.14               |
|                  | 47°F(8.3°C)                                        | 35259                               | 34554            | 34381            | 34243              | 33935              | 3.16                          | 3.18             | 3.19             | 3.20               | 3.21               |
|                  | 52°F(11.1°C)                                       | 37620                               | 36868            | 36684            | 36537              | 36208              | 3.03                          | 3.05             | 3.06             | 3.06               | 3.08               |
|                  | 57°F(13.9°C)                                       | 39982                               | 39182            | 38986            | 38830              | 38481              | 2.90                          | 2.92             | 2.93             | 2.93               | 2.95               |
|                  | 59°F(15.0°C)                                       | 40926                               | 40108            | 39907            | 39747              | 39390              | 2.85                          | 2.87             | 2.88             | 2.88               | 2.89               |
|                  | 62°F(16.7°C)                                       | 42343                               | 41496            | 41289            | 41123              | 40753              | 2.77                          | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 64.4°F(18.0°C)                                     | 43476                               | 42607            | 42394            | 42224              | 41844              | 2.71                          | 2.73             | 2.73             | 2.74               | 2.75               |
|                  | 69.8°F(21.0°C)                                     | 46027                               | 45106            | 44881            | 44701              | 44299              | 2.57                          | 2.59             | 2.59             | 2.60               | 2.61               |
|                  | 75.2°F(24.0°C)                                     | 48577                               | 47605            | 47367            | 47178              | 46753              | 2.43                          | 2.45             | 2.45             | 2.46               | 2.47               |
| 1618             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 18181                               | 17818            | 17729            | 17658              | 17499              | 3.51                          | 3.54             | 3.55             | 3.55               | 3.57               |
|                  | -4°F(-20.0°C)                                      | 22583                               | 22132            | 22021            | 21933              | 21736              | 3.70                          | 3.73             | 3.74             | 3.75               | 3.76               |
|                  | 0°F(-17.8°C)                                       | 24750                               | 24255            | 24134            | 24037              | 23821              | 3.65                          | 3.68             | 3.69             | 3.69               | 3.71               |
|                  | 5°F(-15.0°C)                                       | 27458                               | 26909            | 26774            | 26667              | 26427              | 3.58                          | 3.61             | 3.62             | 3.63               | 3.64               |
|                  | 14°F(-10.0°C)                                      | 28557                               | 27986            | 27846            | 27735              | 27485              | 3.60                          | 3.63             | 3.64             | 3.65               | 3.66               |
|                  | 17°F(-8.3°C)                                       | 28924                               | 28345            | 28204            | 28091              | 27838              | 3.61                          | 3.64             | 3.65             | 3.65               | 3.67               |
|                  | 22°F(-5.6°C)                                       | 30904                               | 30286            | 30134            | 30014              | 29744              | 3.49                          | 3.52             | 3.53             | 3.54               | 3.55               |
|                  | 27°F(-2.8°C)                                       | 32884                               | 32226            | 32065            | 31937              | 31649              | 3.38                          | 3.41             | 3.41             | 3.42               | 3.43               |
|                  | 32°F(-0.0°C)                                       | 34864                               | 34166            | 33995            | 33859              | 33555              | 3.26                          | 3.29             | 3.30             | 3.30               | 3.32               |
|                  | 35°F(1.7°C)                                        | 36052                               | 35330            | 35154            | 35013              | 34698              | 3.19                          | 3.22             | 3.23             | 3.23               | 3.24               |
|                  | 37°F(2.8°C)                                        | 37016                               | 36276            | 36094            | 35950              | 35626              | 3.25                          | 3.27             | 3.28             | 3.28               | 3.30               |
|                  | 42°F(5.6°C)                                        | 39428                               | 38639            | 38446            | 38292              | 37947              | 3.38                          | 3.40             | 3.41             | 3.42               | 3.43               |
|                  | 44.6°F(7.0°C)                                      | 40392                               | 39584            | 39386            | 39229              | 38876              | 3.43                          | 3.46             | 3.46             | 3.47               | 3.48               |
|                  | 47°F(8.3°C)                                        | 41839                               | 41002            | 40797            | 40634              | 40268              | 3.51                          | 3.54             | 3.54             | 3.55               | 3.56               |
|                  | 52°F(11.1°C)                                       | 44641                               | 43748            | 43530            | 43355              | 42965              | 3.36                          | 3.39             | 3.40             | 3.40               | 3.42               |
|                  | 57°F(13.9°C)                                       | 47443                               | 46494            | 46262            | 46077              | 45662              | 3.22                          | 3.25             | 3.25             | 3.26               | 3.27               |
|                  | 59°F(15.0°C)                                       | 48564                               | 47593            | 47355            | 47165              | 46741              | 3.16                          | 3.19             | 3.20             | 3.20               | 3.21               |
|                  | 62°F(16.7°C)                                       | 50245                               | 49240            | 48994            | 48798              | 48359              | 3.08                          | 3.10             | 3.11             | 3.11               | 3.13               |
|                  | 64.4°F(18.0°C)                                     | 51590                               | 50558            | 50306            | 50104              | 49653              | 3.01                          | 3.03             | 3.04             | 3.04               | 3.06               |
|                  | 69.8°F(21.0°C)                                     | 54616                               | 53524            | 53256            | 53043              | 52566              | 2.85                          | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | 75.2°F(24.0°C)                                     | 57642                               | 56490            | 56207            | 55982              | 55478              | 2.70                          | 2.72             | 2.73             | 2.73               | 2.74               |

**Table 34: HEATING PERFORMANCE 48K - DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 735              | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0.00               | 0.00                          | 0.00             | 0.00             | 0.00               | 0                  |
|                  | -13°F(-25.0°C)                                     | 14599                               | 14526            | 13074            | 12956              | 3.46               | 3.49                          | 3.50             | 3.50             | 3.52               | 14599              |
|                  | -4°F(-20.0°C)                                      | 15038                               | 14962            | 13467            | 13346              | 3.11               | 3.14                          | 3.14             | 3.15             | 3.16               | 15038              |
|                  | 0°F(-17.8°C)                                       | 18513                               | 18420            | 16579            | 16430              | 3.43               | 3.46                          | 3.46             | 3.47             | 3.48               | 18513              |
|                  | 5°F(-15.0°C)                                       | 22857                               | 22743            | 20470            | 20286              | 3.83               | 3.86                          | 3.86             | 3.87             | 3.89               | 22857              |
|                  | 14°F(-10.0°C)                                      | 24662                               | 24538            | 22086            | 21887              | 3.73               | 3.76                          | 3.77             | 3.78             | 3.79               | 24662              |
|                  | 17°F(-8.3°C)                                       | 25263                               | 25137            | 22625            | 22421              | 3.70               | 3.73                          | 3.74             | 3.75             | 3.76               | 25263              |
|                  | 22°F(-5.6°C)                                       | 25296                               | 25169            | 22654            | 22450              | 3.60               | 3.63                          | 3.64             | 3.65             | 3.66               | 25296              |
|                  | 27°F(-2.8°C)                                       | 25328                               | 25202            | 22683            | 22479              | 3.50               | 3.53                          | 3.54             | 3.54             | 3.56               | 25328              |
|                  | 32°F(-0.0°C)                                       | 25361                               | 25234            | 22712            | 22508              | 3.40               | 3.43                          | 3.43             | 3.44             | 3.45               | 25361              |
|                  | 35°F(1.7°C)                                        | 25381                               | 25254            | 22730            | 22525              | 3.34               | 3.37                          | 3.37             | 3.38             | 3.39               | 25381              |
|                  | 37°F(2.8°C)                                        | 26464                               | 26331            | 23700            | 23486              | 3.37               | 3.40                          | 3.41             | 3.41             | 3.43               | 26464              |
|                  | 42°F(5.6°C)                                        | 29172                               | 29026            | 26125            | 25890              | 3.45               | 3.48                          | 3.49             | 3.50             | 3.51               | 29172              |
|                  | 44.6°F(7.0°C)                                      | 30255                               | 30104            | 27095            | 26851              | 3.49               | 3.52                          | 3.52             | 3.53             | 3.54               | 30255              |
|                  | 47°F(8.3°C)                                        | 31880                               | 31720            | 28550            | 28293              | 3.54               | 3.56                          | 3.57             | 3.58             | 3.59               | 31880              |
|                  | 52°F(11.1°C)                                       | 33226                               | 33060            | 29756            | 29488              | 3.22               | 3.24                          | 3.25             | 3.26             | 3.27               | 33226              |
|                  | 57°F(13.9°C)                                       | 34572                               | 34399            | 30961            | 30683              | 2.90               | 2.92                          | 2.93             | 2.93             | 2.94               | 34572              |
|                  | 59°F(15.0°C)                                       | 35110                               | 34935            | 31443            | 31160              | 2.77               | 2.79                          | 2.80             | 2.80             | 2.81               | 35110              |
|                  | 62°F(16.7°C)                                       | 35918                               | 35739            | 32167            | 31877              | 2.58               | 2.60                          | 2.60             | 2.61             | 2.62               | 35918              |
|                  | 64.4°F(18.0°C)                                     | 36564                               | 36381            | 32745            | 32451              | 2.42               | 2.44                          | 2.45             | 2.45             | 2.46               | 36564              |
|                  | 69.8°F(21.0°C)                                     | 34890                               | 34715            | 31246            | 30964              | 2.08               | 2.09                          | 2.10             | 2.10             | 2.11               | 34890              |
|                  | 75.2°F(24.0°C)                                     | 32837                               | 32673            | 29408            | 29143              | 1.73               | 1.75                          | 1.75             | 1.75             | 1.76               | 32837              |
| 1029             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0.00               | 0.00                          | 0.00             | 0.00             | 0.00               | 0                  |
|                  | -13°F(-25.0°C)                                     | 17323                               | 17237            | 16320            | 16173              | 3.85               | 3.88                          | 3.88             | 3.89             | 3.91               | 17323              |
|                  | -4°F(-20.0°C)                                      | 17844                               | 17755            | 16810            | 16659              | 3.46               | 3.48                          | 3.49             | 3.50             | 3.51               | 17844              |
|                  | 0°F(-17.8°C)                                       | 21968                               | 21858            | 20696            | 20509              | 3.81               | 3.84                          | 3.85             | 3.86             | 3.87               | 21968              |
|                  | 5°F(-15.0°C)                                       | 27123                               | 26987            | 25552            | 25322              | 4.25               | 4.28                          | 4.29             | 4.30             | 4.32               | 27123              |
|                  | 14°F(-10.0°C)                                      | 29264                               | 29118            | 27569            | 27321              | 4.15               | 4.18                          | 4.19             | 4.20             | 4.21               | 29264              |
|                  | 17°F(-8.3°C)                                       | 29978                               | 29828            | 28242            | 27987              | 4.11               | 4.15                          | 4.16             | 4.16             | 4.18               | 29978              |
|                  | 22°F(-5.6°C)                                       | 30017                               | 29866            | 28278            | 28023              | 4.00               | 4.03                          | 4.04             | 4.05             | 4.07               | 30017              |
|                  | 27°F(-2.8°C)                                       | 30055                               | 29905            | 28314            | 28060              | 3.89               | 3.92                          | 3.93             | 3.94             | 3.95               | 30055              |
|                  | 32°F(-0.0°C)                                       | 30094                               | 29943            | 28351            | 28096              | 3.78               | 3.81                          | 3.82             | 3.82             | 3.84               | 30094              |
|                  | 35°F(1.7°C)                                        | 30117                               | 29967            | 28373            | 28117              | 3.71               | 3.74                          | 3.75             | 3.76             | 3.77               | 30117              |
|                  | 37°F(2.8°C)                                        | 31402                               | 31245            | 29584            | 29317              | 3.75               | 3.78                          | 3.78             | 3.79             | 3.81               | 31402              |
|                  | 42°F(5.6°C)                                        | 34616                               | 34443            | 32611            | 32317              | 3.84               | 3.87                          | 3.88             | 3.88             | 3.90               | 34616              |
|                  | 44.6°F(7.0°C)                                      | 35901                               | 35722            | 33822            | 33517              | 3.87               | 3.91                          | 3.91             | 3.92             | 3.94               | 35901              |
|                  | 47°F(8.3°C)                                        | 37829                               | 37640            | 35638            | 35317              | 3.93               | 3.96                          | 3.97             | 3.98             | 3.99               | 37829              |
|                  | 52°F(11.1°C)                                       | 39427                               | 39229            | 37143            | 36809              | 3.57               | 3.60                          | 3.61             | 3.62             | 3.63               | 39427              |
|                  | 57°F(13.9°C)                                       | 41024                               | 40819            | 38648            | 38300              | 3.22               | 3.24                          | 3.25             | 3.26             | 3.27               | 41024              |
|                  | 59°F(15.0°C)                                       | 41663                               | 41455            | 39250            | 38897              | 3.08               | 3.10                          | 3.11             | 3.11             | 3.13               | 41663              |
|                  | 62°F(16.7°C)                                       | 42621                               | 42408            | 40153            | 39791              | 2.86               | 2.89                          | 2.89             | 2.90             | 2.91               | 42621              |
|                  | 64.4°F(18.0°C)                                     | 43388                               | 43171            | 40875            | 40507              | 2.69               | 2.71                          | 2.72             | 2.72             | 2.74               | 43388              |
|                  | 69.8°F(21.0°C)                                     | 41401                               | 41194            | 39003            | 38652              | 2.31               | 2.33                          | 2.33             | 2.34             | 2.35               | 41401              |
|                  | 75.2°F(24.0°C)                                     | 38965                               | 38771            | 36709            | 36378              | 1.92               | 1.94                          | 1.94             | 1.95             | 1.96               | 38965              |

**Table 34: HEATING PERFORMANCE 48K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1324             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0.00               | 0.00                          | 0.00             | 0.00             | 0.00               | 0                  |
|                  | -13°F(-25.0°C)                                     | 20556                               | 20453            | 20372            | 20188              | 4.27               | 4.31                          | 4.32             | 4.32             | 4.34               | 20556              |
|                  | -4°F(-20.0°C)                                      | 21174                               | 21068            | 20984            | 20795              | 3.84               | 3.87                          | 3.88             | 3.89             | 3.90               | 21174              |
|                  | 0°F(-17.8°C)                                       | 26068                               | 25937            | 25834            | 25601              | 4.23               | 4.27                          | 4.28             | 4.28             | 4.30               | 26068              |
|                  | 5°F(-15.0°C)                                       | 32185                               | 32024            | 31896            | 31608              | 4.72               | 4.76                          | 4.77             | 4.78             | 4.80               | 32185              |
|                  | 14°F(-10.0°C)                                      | 34725                               | 34552            | 34414            | 34104              | 4.61               | 4.65                          | 4.66             | 4.66             | 4.68               | 34725              |
|                  | 17°F(-8.3°C)                                       | 35572                               | 35395            | 35253            | 34936              | 4.57               | 4.61                          | 4.62             | 4.63             | 4.64               | 35572              |
|                  | 22°F(-5.6°C)                                       | 35618                               | 35440            | 35298            | 34981              | 4.45               | 4.48                          | 4.49             | 4.50             | 4.52               | 35618              |
|                  | 27°F(-2.8°C)                                       | 35664                               | 35486            | 35344            | 35026              | 4.32               | 4.36                          | 4.37             | 4.37             | 4.39               | 35664              |
|                  | 32°F(-0.0°C)                                       | 35710                               | 35532            | 35389            | 35071              | 4.20               | 4.23                          | 4.24             | 4.25             | 4.27               | 35710              |
|                  | 35°F(1.7°C)                                        | 35738                               | 35559            | 35417            | 35098              | 4.12               | 4.16                          | 4.16             | 4.17             | 4.19               | 35738              |
|                  | 37°F(2.8°C)                                        | 37263                               | 37077            | 36928            | 36596              | 4.16               | 4.20                          | 4.20             | 4.21             | 4.23               | 37263              |
|                  | 42°F(5.6°C)                                        | 41076                               | 40871            | 40707            | 40341              | 4.26               | 4.30                          | 4.31             | 4.32             | 4.33               | 41076              |
|                  | 44.6°F(7.0°C)                                      | 42601                               | 42388            | 42219            | 41839              | 4.31               | 4.34                          | 4.35             | 4.36             | 4.37               | 42601              |
|                  | 47°F(8.3°C)                                        | 44889                               | 44665            | 44486            | 44086              | 4.37               | 4.40                          | 4.41             | 4.42             | 4.44               | 44889              |
|                  | 52°F(11.1°C)                                       | 46784                               | 46551            | 46364            | 45947              | 3.97               | 4.00                          | 4.01             | 4.02             | 4.04               | 46784              |
|                  | 57°F(13.9°C)                                       | 48680                               | 48437            | 48243            | 47809              | 3.58               | 3.60                          | 3.61             | 3.62             | 3.63               | 48680              |
|                  | 59°F(15.0°C)                                       | 49438                               | 49191            | 48994            | 48553              | 3.42               | 3.45                          | 3.45             | 3.46             | 3.47               | 49438              |
|                  | 62°F(16.7°C)                                       | 50575                               | 50323            | 50121            | 49670              | 3.18               | 3.21                          | 3.21             | 3.22             | 3.23               | 50575              |
|                  | 64.4°F(18.0°C)                                     | 51485                               | 51228            | 51023            | 50564              | 2.99               | 3.02                          | 3.02             | 3.03             | 3.04               | 51485              |
|                  | 69.8°F(21.0°C)                                     | 49127                               | 48882            | 48686            | 48248              | 2.56               | 2.59                          | 2.59             | 2.60             | 2.61               | 49127              |
|                  | 75.2°F(24.0°C)                                     | 46237                               | 46006            | 45822            | 45410              | 2.14               | 2.16                          | 2.16             | 2.16             | 2.17               | 46237              |
| 1618             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 24392                               | 24270            | 24173            | 23956              | 4.75               | 4.79                          | 4.80             | 4.81             | 4.82               | 24392              |
|                  | -4°F(-20.0°C)                                      | 25126                               | 25000            | 24900            | 24676              | 4.27               | 4.30                          | 4.31             | 4.32             | 4.34               | 25126              |
|                  | 0°F(-17.8°C)                                       | 30932                               | 30778            | 30655            | 30379              | 4.70               | 4.74                          | 4.75             | 4.76             | 4.78               | 30932              |
|                  | 5°F(-15.0°C)                                       | 38191                               | 38000            | 37848            | 37507              | 5.25               | 5.29                          | 5.30             | 5.31             | 5.33               | 38191              |
|                  | 14°F(-10.0°C)                                      | 41206                               | 41000            | 40836            | 40468              | 5.12               | 5.16                          | 5.17             | 5.18             | 5.20               | 41206              |
|                  | 17°F(-8.3°C)                                       | 42211                               | 42000            | 41832            | 41456              | 5.08               | 5.12                          | 5.13             | 5.14             | 5.16               | 42211              |
|                  | 22°F(-5.6°C)                                       | 42266                               | 42054            | 41886            | 41509              | 4.94               | 4.98                          | 4.99             | 5.00             | 5.02               | 42266              |
|                  | 27°F(-2.8°C)                                       | 42320                               | 42108            | 41940            | 41563              | 4.80               | 4.84                          | 4.85             | 4.86             | 4.88               | 42320              |
|                  | 32°F(-0.0°C)                                       | 42374                               | 42163            | 41994            | 41616              | 4.66               | 4.70                          | 4.71             | 4.72             | 4.74               | 42374              |
|                  | 35°F(1.7°C)                                        | 42407                               | 42195            | 42026            | 41648              | 4.58               | 4.62                          | 4.63             | 4.64             | 4.65               | 42407              |
|                  | 37°F(2.8°C)                                        | 44217                               | 43996            | 43820            | 43426              | 4.63               | 4.66                          | 4.67             | 4.68             | 4.70               | 44217              |
|                  | 42°F(5.6°C)                                        | 48742                               | 48498            | 48304            | 47869              | 4.74               | 4.78                          | 4.79             | 4.80             | 4.81               | 48742              |
|                  | 44.6°F(7.0°C)                                      | 50552                               | 50299            | 50098            | 49647              | 4.78               | 4.82                          | 4.83             | 4.84             | 4.86               | 50552              |
|                  | 47°F(8.3°C)                                        | 53266                               | 53000            | 52788            | 52313              | 4.85               | 4.89                          | 4.90             | 4.91             | 4.93               | 53266              |
|                  | 52°F(11.1°C)                                       | 55516                               | 55238            | 55017            | 54522              | 4.41               | 4.45                          | 4.46             | 4.47             | 4.48               | 55516              |
|                  | 57°F(13.9°C)                                       | 57765                               | 57476            | 57246            | 56731              | 3.97               | 4.01                          | 4.01             | 4.02             | 4.04               | 57765              |
|                  | 59°F(15.0°C)                                       | 58664                               | 58371            | 58138            | 57614              | 3.80               | 3.83                          | 3.84             | 3.84             | 3.86               | 58664              |
|                  | 62°F(16.7°C)                                       | 60014                               | 59714            | 59475            | 58940              | 3.53               | 3.56                          | 3.57             | 3.58             | 3.59               | 60014              |
|                  | 64.4°F(18.0°C)                                     | 61094                               | 60788            | 60545            | 60000              | 3.32               | 3.35                          | 3.36             | 3.36             | 3.38               | 61094              |
|                  | 69.8°F(21.0°C)                                     | 58295                               | 58004            | 57772            | 57252              | 2.85               | 2.87                          | 2.88             | 2.88             | 2.90               | 58295              |
|                  | 75.2°F(24.0°C)                                     | 54866                               | 54592            | 54374            | 53884              | 2.38               | 2.39                          | 2.40             | 2.40             | 2.41               | 54866              |

**Table 35: HEATING PERFORMANCE 55K - DUCTED**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1201             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 15600                               | 15288            | 15211            | 13963              | 13837              | 3.48                          | 3.5              | 3.51             | 3.52               | 3.53               |
|                  | -4°F(-20.0°C)                                      | 22698                               | 22244            | 22133            | 20316              | 20133              | 4.11                          | 4.15             | 4.15             | 4.16               | 4.18               |
|                  | 0°F(-17.8°C)                                       | 24139                               | 23656            | 23538            | 21606              | 21411              | 4.08                          | 4.11             | 4.12             | 4.12               | 4.14               |
|                  | 5°F(-15.0°C)                                       | 25941                               | 25422            | 25295            | 23218              | 23009              | 4.03                          | 4.06             | 4.07             | 4.08               | 4.09               |
|                  | 14°F(-10.0°C)                                      | 26427                               | 25898            | 25769            | 23654              | 23441              | 3.83                          | 3.87             | 3.87             | 3.88               | 3.9                |
|                  | 17°F(-8.3°C)                                       | 26589                               | 26057            | 25927            | 23799              | 23585              | 3.77                          | 3.8              | 3.81             | 3.82               | 3.83               |
|                  | 22°F(-5.6°C)                                       | 28358                               | 27791            | 27652            | 25382              | 25153              | 3.67                          | 3.7              | 3.7              | 3.71               | 3.73               |
|                  | 27°F(-2.8°C)                                       | 30127                               | 29524            | 29376            | 26965              | 26722              | 3.56                          | 3.59             | 3.6              | 3.61               | 3.62               |
|                  | 32°F(0.0°C)                                        | 31895                               | 31257            | 31101            | 28548              | 28291              | 3.46                          | 3.49             | 3.49             | 3.5                | 3.52               |
|                  | 35°F(1.7°C)                                        | 32957                               | 32297            | 32136            | 29498              | 29233              | 3.4                           | 3.42             | 3.43             | 3.44               | 3.45               |
|                  | 37°F(2.8°C)                                        | 33949                               | 33270            | 33104            | 30386              | 30113              | 3.41                          | 3.44             | 3.45             | 3.46               | 3.47               |
|                  | 42°F(5.6°C)                                        | 36430                               | 35701            | 35523            | 32607              | 32313              | 3.46                          | 3.49             | 3.49             | 3.5                | 3.51               |
|                  | 44.6°F(7.0°C)                                      | 37422                               | 36674            | 36490            | 33495              | 33194              | 3.47                          | 3.5              | 3.51             | 3.52               | 3.53               |
|                  | 47°F(8.3°C)                                        | 38911                               | 38133            | 37942            | 34827              | 34514              | 3.5                           | 3.53             | 3.54             | 3.54               | 3.56               |
|                  | 52°F(11.1°C)                                       | 40505                               | 39695            | 39496            | 36254              | 35928              | 3.33                          | 3.35             | 3.36             | 3.37               | 3.38               |
|                  | 57°F(13.9°C)                                       | 42099                               | 41257            | 41051            | 37681              | 37342              | 3.16                          | 3.18             | 3.19             | 3.19               | 3.21               |
|                  | 59°F(15.0°C)                                       | 42737                               | 41882            | 41672            | 38252              | 37907              | 3.09                          | 3.11             | 3.12             | 3.12               | 3.14               |
|                  | 62°F(16.7°C)                                       | 43693                               | 42819            | 42605            | 39108              | 38756              | 2.98                          | 3.01             | 3.01             | 3.02               | 3.03               |
|                  | 64.4°F(18.0°C)                                     | 44458                               | 43569            | 43351            | 39793              | 39434              | 2.9                           | 2.92             | 2.93             | 2.93               | 2.95               |
|                  | 69.8°F(21.0°C)                                     | 42042                               | 41201            | 40995            | 37630              | 37291              | 2.71                          | 2.74             | 2.74             | 2.75               | 2.76               |
|                  | 75.2°F(24.0°C)                                     | 39829                               | 39033            | 38837            | 35649              | 35328              | 2.53                          | 2.55             | 2.55             | 2.56               | 2.57               |
| 1561             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 18174                               | 17811            | 17722            | 16945              | 16792              | 3.86                          | 3.89             | 3.9              | 3.91               | 3.92               |
|                  | -4°F(-20.0°C)                                      | 26444                               | 25915            | 25786            | 24655              | 24433              | 4.57                          | 4.61             | 4.62             | 4.63               | 4.64               |
|                  | 0°F(-17.8°C)                                       | 28123                               | 27561            | 27423            | 26221              | 25985              | 4.53                          | 4.56             | 4.57             | 4.58               | 4.6                |
|                  | 5°F(-15.0°C)                                       | 30222                               | 29618            | 29469            | 28178              | 27924              | 4.48                          | 4.51             | 4.52             | 4.53               | 4.55               |
|                  | 14°F(-10.0°C)                                      | 30789                               | 30173            | 30022            | 28706              | 28447              | 4.26                          | 4.3              | 4.3              | 4.31               | 4.33               |
|                  | 17°F(-8.3°C)                                       | 30978                               | 30358            | 30206            | 28882              | 28622              | 4.19                          | 4.22             | 4.23             | 4.24               | 4.26               |
|                  | 22°F(-5.6°C)                                       | 33038                               | 32377            | 32216            | 30803              | 30526              | 4.07                          | 4.11             | 4.12             | 4.12               | 4.14               |
|                  | 27°F(-2.8°C)                                       | 35099                               | 34397            | 34225            | 32725              | 32430              | 3.96                          | 3.99             | 4                | 4.01               | 4.02               |
|                  | 32°F(0.0°C)                                        | 37160                               | 36416            | 36234            | 34646              | 34334              | 3.84                          | 3.88             | 3.88             | 3.89               | 3.91               |
|                  | 35°F(1.7°C)                                        | 38396                               | 37628            | 37440            | 35799              | 35476              | 3.78                          | 3.81             | 3.81             | 3.82               | 3.84               |
|                  | 37°F(2.8°C)                                        | 39552                               | 38761            | 38567            | 36877              | 36545              | 3.79                          | 3.82             | 3.83             | 3.84               | 3.86               |
|                  | 42°F(5.6°C)                                        | 42443                               | 41594            | 41386            | 39571              | 39215              | 3.84                          | 3.87             | 3.88             | 3.89               | 3.9                |
|                  | 44.6°F(7.0°C)                                      | 43599                               | 42727            | 42513            | 40649              | 40283              | 3.86                          | 3.89             | 3.9              | 3.91               | 3.92               |
|                  | 47°F(8.3°C)                                        | 45333                               | 44426            | 44204            | 42266              | 41886              | 3.89                          | 3.92             | 3.93             | 3.94               | 3.95               |
|                  | 52°F(11.1°C)                                       | 47190                               | 46246            | 46015            | 43998              | 43602              | 3.7                           | 3.73             | 3.73             | 3.74               | 3.76               |
|                  | 57°F(13.9°C)                                       | 49047                               | 48066            | 47826            | 45729              | 45318              | 3.51                          | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 59°F(15.0°C)                                       | 49790                               | 48794            | 48550            | 46422              | 46004              | 3.43                          | 3.46             | 3.46             | 3.47               | 3.48               |
|                  | 62°F(16.7°C)                                       | 50904                               | 49886            | 49637            | 47461              | 47034              | 3.31                          | 3.34             | 3.35             | 3.35               | 3.37               |
|                  | 64.4°F(18.0°C)                                     | 51796                               | 50760            | 50506            | 48292              | 47857              | 3.22                          | 3.25             | 3.25             | 3.26               | 3.27               |
|                  | 69.8°F(21.0°C)                                     | 48981                               | 48001            | 47761            | 45667              | 45256              | 3.01                          | 3.04             | 3.05             | 3.05               | 3.06               |
|                  | 75.2°F(24.0°C)                                     | 46403                               | 45475            | 45247            | 43264              | 42874              | 2.81                          | 2.83             | 2.84             | 2.84               | 2.85               |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 35: HEATING PERFORMANCE 55K - DUCTED (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 2288             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 21174                               | 20751            | 20647            | 20564              | 20379              | 4.29                          | 4.32             | 4.33             | 4.34               | 4.36               |
|                  | -4°F(-20.0°C)                                      | 30809                               | 30193            | 30042            | 29922              | 29652              | 5.08                          | 5.12             | 5.13             | 5.14               | 5.16               |
|                  | 0°F(-17.8°C)                                       | 32765                               | 32110            | 31949            | 31821              | 31535              | 5.03                          | 5.07             | 5.08             | 5.09               | 5.11               |
|                  | 5°F(-15.0°C)                                       | 35210                               | 34506            | 34333            | 34196              | 33888              | 4.97                          | 5.01             | 5.02             | 5.03               | 5.05               |
|                  | 14°F(-10.0°C)                                      | 35870                               | 35153            | 34977            | 34837              | 34524              | 4.73                          | 4.77             | 4.78             | 4.79               | 4.81               |
|                  | 17°F(-8.3°C)                                       | 36090                               | 35369            | 35192            | 35051              | 34735              | 4.65                          | 4.69             | 4.7              | 4.71               | 4.73               |
|                  | 22°F(-5.6°C)                                       | 38491                               | 37721            | 37533            | 37383              | 37046              | 4.53                          | 4.56             | 4.57             | 4.58               | 4.6                |
|                  | 27°F(-2.8°C)                                       | 40892                               | 40074            | 39874            | 39714              | 39357              | 4.4                           | 4.43             | 4.44             | 4.45               | 4.47               |
|                  | 32°F(0.0°C)                                        | 43293                               | 42427            | 42215            | 42046              | 41667              | 4.27                          | 4.31             | 4.31             | 4.32               | 4.34               |
|                  | 35°F(1.7°C)                                        | 44733                               | 43839            | 43619            | 43445              | 43054              | 4.19                          | 4.23             | 4.24             | 4.25               | 4.26               |
|                  | 37°F(2.8°C)                                        | 46080                               | 45159            | 44933            | 44753              | 44350              | 4.22                          | 4.25             | 4.26             | 4.27               | 4.28               |
|                  | 42°F(5.6°C)                                        | 49448                               | 48459            | 48216            | 48024              | 47591              | 4.27                          | 4.3              | 4.31             | 4.32               | 4.34               |
|                  | 44.6°F(7.0°C)                                      | 50795                               | 49779            | 49530            | 49332              | 48888              | 4.29                          | 4.32             | 4.33             | 4.34               | 4.36               |
|                  | 47°F(8.3°C)                                        | 52815                               | 51759            | 51500            | 51294              | 50832              | 4.32                          | 4.36             | 4.37             | 4.37               | 4.39               |
|                  | 52°F(11.1°C)                                       | 54979                               | 53879            | 53610            | 53395              | 52915              | 4.11                          | 4.14             | 4.15             | 4.16               | 4.17               |
|                  | 57°F(13.9°C)                                       | 57142                               | 56000            | 55720            | 55497              | 54997              | 3.9                           | 3.93             | 3.93             | 3.94               | 3.96               |
|                  | 59°F(15.0°C)                                       | 58008                               | 56848            | 56564            | 56337              | 55830              | 3.81                          | 3.84             | 3.85             | 3.86               | 3.87               |
|                  | 62°F(16.7°C)                                       | 59306                               | 58120            | 57829            | 57598              | 57080              | 3.68                          | 3.71             | 3.72             | 3.73               | 3.74               |
|                  | 64.4°F(18.0°C)                                     | 60345                               | 59138            | 58842            | 58607              | 58079              | 3.58                          | 3.61             | 3.62             | 3.62               | 3.64               |
|                  | 69.8°F(21.0°C)                                     | 57065                               | 55924            | 55644            | 55421              | 54923              | 3.35                          | 3.38             | 3.38             | 3.39               | 3.4                |
|                  | 75.2°F(24.0°C)                                     | 54062                               | 52980            | 52715            | 52505              | 52032              | 3.12                          | 3.15             | 3.15             | 3.16               | 3.17               |
| 2925             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 24669                               | 24175            | 24055            | 23958              | 23743              | 4.77                          | 4.81             | 4.82             | 4.82               | 4.84               |
|                  | -4°F(-20.0°C)                                      | 35894                               | 35176            | 35000            | 34860              | 34546              | 5.64                          | 5.69             | 5.7              | 5.71               | 5.73               |
|                  | 0°F(-17.8°C)                                       | 38173                               | 37409            | 37222            | 37073              | 36740              | 5.59                          | 5.64             | 5.65             | 5.66               | 5.68               |
|                  | 5°F(-15.0°C)                                       | 41021                               | 40201            | 40000            | 39840              | 39481              | 5.53                          | 5.57             | 5.58             | 5.59               | 5.62               |
|                  | 14°F(-10.0°C)                                      | 41791                               | 40955            | 40750            | 40587              | 40222              | 5.26                          | 5.3              | 5.31             | 5.32               | 5.35               |
|                  | 17°F(-8.3°C)                                       | 42047                               | 41206            | 41000            | 40836              | 40468              | 5.17                          | 5.21             | 5.22             | 5.23               | 5.26               |
|                  | 22°F(-5.6°C)                                       | 44844                               | 43947            | 43727            | 43552              | 43161              | 5.03                          | 5.07             | 5.08             | 5.09               | 5.11               |
|                  | 27°F(-2.8°C)                                       | 47641                               | 46688            | 46455            | 46269              | 45853              | 4.89                          | 4.93             | 4.94             | 4.95               | 4.97               |
|                  | 32°F(0.0°C)                                        | 50438                               | 49429            | 49182            | 48985              | 48545              | 4.75                          | 4.78             | 4.79             | 4.8                | 4.82               |
|                  | 35°F(1.7°C)                                        | 52116                               | 51074            | 50819            | 50615              | 50160              | 4.66                          | 4.7              | 4.71             | 4.72               | 4.74               |
|                  | 37°F(2.8°C)                                        | 53686                               | 52612            | 52349            | 52139              | 51670              | 4.68                          | 4.72             | 4.73             | 4.74               | 4.76               |
|                  | 42°F(5.6°C)                                        | 57609                               | 56457            | 56174            | 55950              | 55446              | 4.74                          | 4.78             | 4.79             | 4.8                | 4.82               |
|                  | 44.6°F(7.0°C)                                      | 59178                               | 57995            | 57705            | 57474              | 56957              | 4.77                          | 4.8              | 4.81             | 4.82               | 4.84               |
|                  | 47°F(8.3°C)                                        | 61532                               | 60302            | 60000            | 59760              | 59222              | 4.8                           | 4.84             | 4.85             | 4.86               | 4.88               |
|                  | 52°F(11.1°C)                                       | 64053                               | 62772            | 62458            | 62208              | 61648              | 4.56                          | 4.6              | 4.61             | 4.62               | 4.64               |
|                  | 57°F(13.9°C)                                       | 66574                               | 65242            | 64916            | 64656              | 64074              | 4.33                          | 4.36             | 4.37             | 4.38               | 4.4                |
|                  | 59°F(15.0°C)                                       | 67582                               | 66230            | 65899            | 65636              | 65045              | 4.23                          | 4.27             | 4.28             | 4.28               | 4.3                |
|                  | 62°F(16.7°C)                                       | 69095                               | 67713            | 67374            | 67105              | 66501              | 4.09                          | 4.12             | 4.13             | 4.14               | 4.16               |
|                  | 64.4°F(18.0°C)                                     | 70304                               | 68898            | 68554            | 68280              | 67665              | 3.98                          | 4.01             | 4.02             | 4.03               | 4.04               |
|                  | 69.8°F(21.0°C)                                     | 66483                               | 65154            | 64828            | 64569              | 63988              | 3.72                          | 3.75             | 3.76             | 3.77               | 3.78               |
|                  | 75.2°F(24.0°C)                                     | 62984                               | 61725            | 61416            | 61170              | 60620              | 3.47                          | 3.49             | 3.5              | 3.51               | 3.52               |

**HEATING PERFORMANCE - MIXED****Table 36: HEATING PERFORMANCE 18K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 15381                               | 15073            | 14998            | 9094               | 9012               | 1.9                           | 2.0              | 2.0              | 2.0                | 2.0                |
|                  | -4°F(-20.0°C)                                      | 14928                               | 14629            | 14556            | 8826               | 8747               | 0.9                           | 0.9              | 1.0              | 1.0                | 1.0                |
|                  | 0°F(-17.8°C)                                       | 15458                               | 15149            | 15074            | 9140               | 9057               | 0.9                           | 0.9              | 1.0              | 1.0                | 1.0                |
|                  | 5°F(-15.0°C)                                       | 16122                               | 15799            | 15720            | 9532               | 9446               | 0.9                           | 1.0              | 1.0              | 1.0                | 1.0                |
|                  | 14°F(-10.0°C)                                      | 16410                               | 16082            | 16001            | 9702               | 9615               | 0.9                           | 1.0              | 1.0              | 1.0                | 1.0                |
|                  | 17°F(-8.3°C)                                       | 16506                               | 16176            | 16095            | 9759               | 9671               | 0.9                           | 1.0              | 1.0              | 1.0                | 1.0                |
|                  | 22°F(-5.6°C)                                       | 16227                               | 15902            | 15823            | 9594               | 9508               | 0.9                           | 0.9              | 0.9              | 0.9                | 1.0                |
|                  | 27°F(-2.8°C)                                       | 15948                               | 15629            | 15551            | 9429               | 9344               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 32°F(-0.0°C)                                       | 15669                               | 15356            | 15279            | 9264               | 9181               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 35°F(1.7°C)                                        | 15502                               | 15192            | 15116            | 9165               | 9083               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 37°F(2.8°C)                                        | 15784                               | 15469            | 15391            | 9332               | 9248               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 42°F(5.6°C)                                        | 16491                               | 16161            | 16081            | 9750               | 9663               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 44.6°F(7.0°C)                                      | 16774                               | 16439            | 16356            | 9917               | 9828               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 47°F(8.3°C)                                        | 17198                               | 16854            | 16770            | 10168              | 10077              | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 52°F(11.1°C)                                       | 17063                               | 16721            | 16638            | 10088              | 9997               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 57°F(13.9°C)                                       | 16927                               | 16588            | 16505            | 10008              | 9918               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 59°F(15.0°C)                                       | 16873                               | 16535            | 16453            | 9976               | 9886               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 62°F(16.7°C)                                       | 16791                               | 16456            | 16373            | 9928               | 9838               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 64.4°F(18.0°C)                                     | 16726                               | 16392            | 16310            | 9889               | 9800               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 69.8°F(21.0°C)                                     | 13731                               | 13457            | 13390            | 8119               | 8046               | 0.9                           | 0.9              | 0.9              | 0.9                | 0.9                |
|                  | 75.2°F(24.0°C)                                     | 9616                                | 9424             | 9377             | 5686               | 5634               | 0.8                           | 0.9              | 0.9              | 0.9                | 0.9                |
| 688              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 17029                               | 16688            | 16605            | 12904              | 12788              | 2.4                           | 2.4              | 2.4              | 2.5                | 2.5                |
|                  | -4°F(-20.0°C)                                      | 16527                               | 16197            | 16116            | 12524              | 12411              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 0°F(-17.8°C)                                       | 17115                               | 16772            | 16688            | 12969              | 12852              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 5°F(-15.0°C)                                       | 17849                               | 17492            | 17404            | 13525              | 13404              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 14°F(-10.0°C)                                      | 18168                               | 17805            | 17716            | 13767              | 13643              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 17°F(-8.3°C)                                       | 18274                               | 17909            | 17819            | 13848              | 13723              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 22°F(-5.6°C)                                       | 17965                               | 17606            | 17518            | 13614              | 13491              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 27°F(-2.8°C)                                       | 17657                               | 17303            | 17217            | 13380              | 13259              | 1.2                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 32°F(-0.0°C)                                       | 17348                               | 17001            | 16916            | 13146              | 13027              | 1.1                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 35°F(1.7°C)                                        | 17162                               | 16819            | 16735            | 13005              | 12888              | 1.1                           | 1.1              | 1.1              | 1.2                | 1.2                |
|                  | 37°F(2.8°C)                                        | 17475                               | 17126            | 17040            | 13242              | 13123              | 1.1                           | 1.1              | 1.2              | 1.2                | 1.2                |
|                  | 42°F(5.6°C)                                        | 18258                               | 17893            | 17803            | 13835              | 13711              | 1.1                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 44.6°F(7.0°C)                                      | 18571                               | 18200            | 18109            | 14073              | 13946              | 1.1                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 47°F(8.3°C)                                        | 19041                               | 18660            | 18567            | 14428              | 14299              | 1.1                           | 1.2              | 1.2              | 1.2                | 1.2                |
|                  | 52°F(11.1°C)                                       | 18891                               | 18513            | 18420            | 14315              | 14186              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.2                |
|                  | 57°F(13.9°C)                                       | 18740                               | 18366            | 18274            | 14201              | 14073              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |
|                  | 59°F(15.0°C)                                       | 18680                               | 18307            | 18215            | 14155              | 14028              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |
|                  | 62°F(16.7°C)                                       | 18590                               | 18219            | 18127            | 14087              | 13960              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |
|                  | 64.4°F(18.0°C)                                     | 18518                               | 18148            | 18057            | 14033              | 13906              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |
|                  | 69.8°F(21.0°C)                                     | 15203                               | 14899            | 14824            | 11520              | 11416              | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |
|                  | 75.2°F(24.0°C)                                     | 10647                               | 10434            | 10381            | 8068               | 7995               | 1.1                           | 1.1              | 1.1              | 1.1                | 1.1                |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 36: HEATING PERFORMANCE 18K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 18853                               | 18476            | 18384            | 18310              | 18145              | 3.0                           | 3.0              | 3.0              | 3.0                | 3.0                |
|                  | -4°F(-20.0°C)                                      | 18298                               | 17932            | 17842            | 17771              | 17611              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 0°F(-17.8°C)                                       | 18948                               | 18569            | 18476            | 18402              | 18237              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.5                |
|                  | 5°F(-15.0°C)                                       | 19761                               | 19366            | 19269            | 19192              | 19019              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.5                |
|                  | 14°F(-10.0°C)                                      | 20114                               | 19712            | 19613            | 19535              | 19359              | 1.4                           | 1.4              | 1.4              | 1.5                | 1.5                |
|                  | 17°F(-8.3°C)                                       | 20232                               | 19827            | 19728            | 19649              | 19473              | 1.4                           | 1.4              | 1.4              | 1.5                | 1.5                |
|                  | 22°F(-5.6°C)                                       | 19890                               | 19492            | 19395            | 19317              | 19143              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 27°F(-2.8°C)                                       | 19548                               | 19157            | 19061            | 18985              | 18814              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 32°F(-0.0°C)                                       | 19206                               | 18822            | 18728            | 18653              | 18485              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 35°F(1.7°C)                                        | 19001                               | 18621            | 18528            | 18454              | 18288              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 37°F(2.8°C)                                        | 19348                               | 18961            | 18866            | 18790              | 18621              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 42°F(5.6°C)                                        | 20214                               | 19810            | 19711            | 19632              | 19455              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 44.6°F(7.0°C)                                      | 20561                               | 20150            | 20049            | 19969              | 19789              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 47°F(8.3°C)                                        | 21081                               | 20659            | 20556            | 20474              | 20289              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 52°F(11.1°C)                                       | 20914                               | 20496            | 20394            | 20312              | 20129              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 57°F(13.9°C)                                       | 20748                               | 20333            | 20232            | 20151              | 19969              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 59°F(15.0°C)                                       | 20682                               | 20268            | 20167            | 20086              | 19905              | 1.4                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 62°F(16.7°C)                                       | 20582                               | 20170            | 20070            | 19989              | 19809              | 1.3                           | 1.4              | 1.4              | 1.4                | 1.4                |
|                  | 64.4°F(18.0°C)                                     | 20502                               | 20092            | 19992            | 19912              | 19733              | 1.3                           | 1.3              | 1.3              | 1.4                | 1.4                |
|                  | 69.8°F(21.0°C)                                     | 16831                               | 16495            | 16412            | 16347              | 16199              | 1.3                           | 1.3              | 1.3              | 1.3                | 1.3                |
|                  | 75.2°F(24.0°C)                                     | 11787                               | 11551            | 11494            | 11448              | 11345              | 1.3                           | 1.3              | 1.3              | 1.3                | 1.3                |
| 1147             | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 20873                               | 20456            | 20353            | 20272              | 20089              | 3.7                           | 3.7              | 3.7              | 3.7                | 3.7                |
|                  | -4°F(-20.0°C)                                      | 20258                               | 19853            | 19754            | 19675              | 19498              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.8                |
|                  | 0°F(-17.8°C)                                       | 20978                               | 20559            | 20456            | 20374              | 20191              | 1.7                           | 1.7              | 1.7              | 1.8                | 1.8                |
|                  | 5°F(-15.0°C)                                       | 21878                               | 21441            | 21334            | 21248              | 21057              | 1.7                           | 1.8              | 1.8              | 1.8                | 1.8                |
|                  | 14°F(-10.0°C)                                      | 22269                               | 21824            | 21715            | 21628              | 21433              | 1.7                           | 1.8              | 1.8              | 1.8                | 1.8                |
|                  | 17°F(-8.3°C)                                       | 22400                               | 21952            | 21842            | 21755              | 21559              | 1.7                           | 1.8              | 1.8              | 1.8                | 1.8                |
|                  | 22°F(-5.6°C)                                       | 22021                               | 21581            | 21473            | 21387              | 21194              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 27°F(-2.8°C)                                       | 21642                               | 21210            | 21104            | 21019              | 20830              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 32°F(-0.0°C)                                       | 21264                               | 20839            | 20734            | 20652              | 20466              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 35°F(1.7°C)                                        | 21037                               | 20616            | 20513            | 20431              | 20247              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 37°F(2.8°C)                                        | 21420                               | 20992            | 20887            | 20804              | 20616              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 42°F(5.6°C)                                        | 22380                               | 21932            | 21823            | 21735              | 21540              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 44.6°F(7.0°C)                                      | 22764                               | 22308            | 22197            | 22108              | 21909              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 47°F(8.3°C)                                        | 23339                               | 22872            | 22758            | 22667              | 22463              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 52°F(11.1°C)                                       | 23155                               | 22692            | 22579            | 22488              | 22286              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 57°F(13.9°C)                                       | 22971                               | 22512            | 22399            | 22310              | 22109              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 59°F(15.0°C)                                       | 22898                               | 22440            | 22327            | 22238              | 22038              | 1.7                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 62°F(16.7°C)                                       | 22787                               | 22331            | 22220            | 22131              | 21932              | 1.6                           | 1.7              | 1.7              | 1.7                | 1.7                |
|                  | 64.4°F(18.0°C)                                     | 22699                               | 22245            | 22134            | 22045              | 21847              | 1.6                           | 1.6              | 1.6              | 1.7                | 1.7                |
|                  | 69.8°F(21.0°C)                                     | 18635                               | 18262            | 18171            | 18098              | 17935              | 1.6                           | 1.6              | 1.6              | 1.6                | 1.6                |
|                  | 75.2°F(24.0°C)                                     | 13050                               | 12789            | 12725            | 12674              | 12560              | 1.6                           | 1.6              | 1.6              | 1.6                | 1.6                |

**Table 37: HEATING PERFORMANCE 24K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 7694                                | 7540             | 7502             | 5825               | 5773               | 1.37                          | 1.38             | 1.38             | 1.39               | 1.39               |
|                  | -4°F(-20.0°C)                                      | 8208                                | 8044             | 8004             | 6253               | 6197               | 1.37                          | 1.38             | 1.39             | 1.39               | 1.40               |
|                  | 0°F(-17.8°C)                                       | 10097                               | 9895             | 9846             | 7651               | 7582               | 1.42                          | 1.44             | 1.44             | 1.44               | 1.45               |
|                  | 5°F(-15.0°C)                                       | 12458                               | 12209            | 12148            | 9398               | 9313               | 1.49                          | 1.50             | 1.50             | 1.51               | 1.51               |
|                  | 14°F(-10.0°C)                                      | 12283                               | 12038            | 11977            | 9271               | 9188               | 1.46                          | 1.47             | 1.47             | 1.48               | 1.48               |
|                  | 17°F(-8.3°C)                                       | 12225                               | 11980            | 11921            | 9229               | 9146               | 1.45                          | 1.46             | 1.46             | 1.47               | 1.47               |
|                  | 22°F(-5.6°C)                                       | 12032                               | 11791            | 11732            | 9066               | 8985               | 1.40                          | 1.41             | 1.41             | 1.42               | 1.42               |
|                  | 27°F(-2.8°C)                                       | 11839                               | 11602            | 11544            | 8903               | 8823               | 1.35                          | 1.36             | 1.36             | 1.36               | 1.37               |
|                  | 32°F(0.0°C)                                        | 11646                               | 11413            | 11356            | 8740               | 8661               | 1.29                          | 1.30             | 1.31             | 1.31               | 1.32               |
|                  | 35°F(1.7°C)                                        | 11530                               | 11300            | 11243            | 8642               | 8564               | 1.26                          | 1.27             | 1.28             | 1.28               | 1.28               |
|                  | 37°F(2.8°C)                                        | 12868                               | 12611            | 12548            | 9648               | 9562               | 1.29                          | 1.30             | 1.30             | 1.30               | 1.31               |
|                  | 42°F(5.6°C)                                        | 16213                               | 15889            | 15809            | 12164              | 12054              | 1.34                          | 1.35             | 1.35             | 1.36               | 1.36               |
|                  | 44.6°F(7.0°C)                                      | 17551                               | 17200            | 17114            | 13170              | 13052              | 1.36                          | 1.37             | 1.38             | 1.38               | 1.39               |
|                  | 47°F(8.3°C)                                        | 19558                               | 19166            | 19071            | 14680              | 14547              | 1.40                          | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 52°F(11.1°C)                                       | 18472                               | 18102            | 18012            | 13758              | 13634              | 1.25                          | 1.26             | 1.26             | 1.26               | 1.27               |
|                  | 57°F(13.9°C)                                       | 17386                               | 17038            | 16953            | 12836              | 12721              | 1.10                          | 1.11             | 1.11             | 1.11               | 1.12               |
|                  | 59°F(15.0°C)                                       | 16951                               | 16612            | 16529            | 12468              | 12355              | 1.04                          | 1.05             | 1.05             | 1.05               | 1.06               |
|                  | 62°F(16.7°C)                                       | 16300                               | 15974            | 15894            | 11915              | 11807              | 0.95                          | 0.96             | 0.96             | 0.96               | 0.96               |
|                  | 64.4°F(18.0°C)                                     | 15779                               | 15463            | 15386            | 11472              | 11369              | 0.88                          | 0.88             | 0.89             | 0.89               | 0.89               |
|                  | 69.8°F(21.0°C)                                     | 14606                               | 14314            | 14242            | 10477              | 10383              | 0.72                          | 0.72             | 0.72             | 0.73               | 0.73               |
|                  | 75.2°F(24.0°C)                                     | 13433                               | 13165            | 13099            | 9481               | 9396               | 0.56                          | 0.56             | 0.56             | 0.56               | 0.56               |
| 688              | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 8987                                | 8807             | 8763             | 7692               | 7623               | 1.64                          | 1.65             | 1.66             | 1.66               | 1.67               |
|                  | -4°F(-20.0°C)                                      | 9594                                | 9402             | 9355             | 8237               | 8163               | 1.64                          | 1.66             | 1.66             | 1.66               | 1.67               |
|                  | 0°F(-17.8°C)                                       | 11795                               | 11559            | 11502            | 10099              | 10008              | 1.70                          | 1.72             | 1.72             | 1.72               | 1.73               |
|                  | 5°F(-15.0°C)                                       | 14547                               | 14256            | 14185            | 12427              | 12316              | 1.78                          | 1.80             | 1.80             | 1.80               | 1.81               |
|                  | 14°F(-10.0°C)                                      | 14344                               | 14057            | 13986            | 12257              | 12147              | 1.75                          | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 17°F(-8.3°C)                                       | 14276                               | 13990            | 13920            | 12201              | 12091              | 1.74                          | 1.75             | 1.76             | 1.76               | 1.77               |
|                  | 22°F(-5.6°C)                                       | 14048                               | 13767            | 13698            | 11994              | 11886              | 1.68                          | 1.69             | 1.69             | 1.70               | 1.70               |
|                  | 27°F(-2.8°C)                                       | 13820                               | 13543            | 13476            | 11788              | 11682              | 1.62                          | 1.63             | 1.63             | 1.64               | 1.64               |
|                  | 32°F(0.0°C)                                        | 13592                               | 13320            | 13253            | 11581              | 11477              | 1.55                          | 1.57             | 1.57             | 1.57               | 1.58               |
|                  | 35°F(1.7°C)                                        | 13455                               | 13186            | 13120            | 11458              | 11354              | 1.52                          | 1.53             | 1.53             | 1.54               | 1.54               |
|                  | 37°F(2.8°C)                                        | 15017                               | 14716            | 14643            | 12790              | 12675              | 1.54                          | 1.56             | 1.56             | 1.56               | 1.57               |
|                  | 42°F(5.6°C)                                        | 18921                               | 18543            | 18450            | 16120              | 15975              | 1.61                          | 1.62             | 1.62             | 1.63               | 1.63               |
|                  | 44.6°F(7.0°C)                                      | 20483                               | 20073            | 19973            | 17452              | 17295              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 47°F(8.3°C)                                        | 22825                               | 22369            | 22257            | 19451              | 19276              | 1.67                          | 1.69             | 1.69             | 1.69               | 1.70               |
|                  | 52°F(11.1°C)                                       | 21542                               | 21111            | 21005            | 18286              | 18121              | 1.50                          | 1.51             | 1.51             | 1.51               | 1.52               |
|                  | 57°F(13.9°C)                                       | 20258                               | 19853            | 19754            | 17121              | 16967              | 1.32                          | 1.33             | 1.33             | 1.34               | 1.34               |
|                  | 59°F(15.0°C)                                       | 19745                               | 19350            | 19253            | 16655              | 16506              | 1.25                          | 1.26             | 1.26             | 1.26               | 1.27               |
|                  | 62°F(16.7°C)                                       | 18974                               | 18595            | 18502            | 15957              | 15813              | 1.14                          | 1.15             | 1.15             | 1.16               | 1.16               |
|                  | 64.4°F(18.0°C)                                     | 18358                               | 17991            | 17901            | 15398              | 15259              | 1.06                          | 1.07             | 1.07             | 1.07               | 1.08               |
|                  | 69.8°F(21.0°C)                                     | 16972                               | 16632            | 16549            | 14140              | 14012              | 0.87                          | 0.87             | 0.88             | 0.88               | 0.88               |
|                  | 75.2°F(24.0°C)                                     | 15585                               | 15274            | 15197            | 12882              | 12766              | 0.68                          | 0.68             | 0.68             | 0.68               | 0.69               |

**Table 37: HEATING PERFORMANCE 24K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 10500                               | 10290            | 10239            | 10198              | 10106              | 1.92                          | 1.94             | 1.94             | 1.95               | 1.95               |
|                  | -4°F(-20.0°C)                                      | 11216                               | 10992            | 10937            | 10893              | 10795              | 1.92                          | 1.94             | 1.94             | 1.95               | 1.95               |
|                  | 0°F(-17.8°C)                                       | 13783                               | 13507            | 13439            | 13386              | 13265              | 1.99                          | 2.01             | 2.01             | 2.02               | 2.03               |
|                  | 5°F(-15.0°C)                                       | 16990                               | 16650            | 16567            | 16501              | 16352              | 2.08                          | 2.10             | 2.10             | 2.11               | 2.12               |
|                  | 14°F(-10.0°C)                                      | 16754                               | 16419            | 16337            | 16271              | 16125              | 2.05                          | 2.07             | 2.07             | 2.08               | 2.08               |
|                  | 17°F(-8.3°C)                                       | 16675                               | 16341            | 16260            | 16195              | 16049              | 2.04                          | 2.06             | 2.06             | 2.06               | 2.07               |
|                  | 22°F(-5.6°C)                                       | 16406                               | 16077            | 15997            | 15933              | 15790              | 1.97                          | 1.98             | 1.99             | 1.99               | 2.00               |
|                  | 27°F(-2.8°C)                                       | 16136                               | 15813            | 15734            | 15671              | 15530              | 1.90                          | 1.91             | 1.91             | 1.92               | 1.93               |
|                  | 32°F(-0.0°C)                                       | 15867                               | 15549            | 15472            | 15410              | 15271              | 1.82                          | 1.84             | 1.84             | 1.85               | 1.85               |
|                  | 35°F(1.7°C)                                        | 15705                               | 15391            | 15314            | 15253              | 15115              | 1.78                          | 1.80             | 1.80             | 1.80               | 1.81               |
|                  | 37°F(2.8°C)                                        | 17528                               | 17178            | 17092            | 17024              | 16870              | 1.81                          | 1.83             | 1.83             | 1.83               | 1.84               |
|                  | 42°F(5.6°C)                                        | 22087                               | 21645            | 21537            | 21451              | 21258              | 1.89                          | 1.90             | 1.90             | 1.91               | 1.92               |
|                  | 44.6°F(7.0°C)                                      | 23911                               | 23432            | 23315            | 23222              | 23013              | 1.92                          | 1.93             | 1.94             | 1.94               | 1.95               |
|                  | 47°F(8.3°C)                                        | 26646                               | 26113            | 25982            | 25879              | 25646              | 1.96                          | 1.98             | 1.98             | 1.98               | 1.99               |
|                  | 52°F(11.1°C)                                       | 25128                               | 24626            | 24503            | 24405              | 24185              | 1.76                          | 1.77             | 1.77             | 1.78               | 1.78               |
|                  | 57°F(13.9°C)                                       | 23610                               | 23138            | 23023            | 22930              | 22724              | 1.55                          | 1.56             | 1.57             | 1.57               | 1.57               |
|                  | 59°F(15.0°C)                                       | 23003                               | 22543            | 22431            | 22341              | 22140              | 1.47                          | 1.48             | 1.48             | 1.48               | 1.49               |
|                  | 62°F(16.7°C)                                       | 22093                               | 21651            | 21543            | 21456              | 21263              | 1.34                          | 1.35             | 1.36             | 1.36               | 1.37               |
|                  | 64.4°F(18.0°C)                                     | 21364                               | 20937            | 20832            | 20749              | 20562              | 1.24                          | 1.25             | 1.26             | 1.26               | 1.27               |
|                  | 69.8°F(21.0°C)                                     | 19725                               | 19331            | 19234            | 19157              | 18985              | 1.02                          | 1.03             | 1.03             | 1.04               | 1.04               |
|                  | 75.2°F(24.0°C)                                     | 18086                               | 17724            | 17636            | 17565              | 17407              | 0.80                          | 0.81             | 0.81             | 0.81               | 0.81               |
| 1147             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 12271                               | 12026            | 11966            | 11918              | 11811              | 2.26                          | 2.28             | 2.29             | 2.29               | 2.30               |
|                  | -4°F(-20.0°C)                                      | 13116                               | 12854            | 12790            | 12739              | 12624              | 2.26                          | 2.28             | 2.28             | 2.29               | 2.30               |
|                  | 0°F(-17.8°C)                                       | 16109                               | 15786            | 15708            | 15645              | 15504              | 2.34                          | 2.36             | 2.37             | 2.37               | 2.38               |
|                  | 5°F(-15.0°C)                                       | 19849                               | 19452            | 19355            | 19277              | 19104              | 2.45                          | 2.47             | 2.47             | 2.47               | 2.48               |
|                  | 14°F(-10.0°C)                                      | 19574                               | 19182            | 19086            | 19010              | 18839              | 2.41                          | 2.43             | 2.44             | 2.44               | 2.45               |
|                  | 17°F(-8.3°C)                                       | 19482                               | 19092            | 18997            | 18921              | 18751              | 2.40                          | 2.42             | 2.42             | 2.43               | 2.44               |
|                  | 22°F(-5.6°C)                                       | 19164                               | 18780            | 18686            | 18612              | 18444              | 2.32                          | 2.33             | 2.34             | 2.34               | 2.35               |
|                  | 27°F(-2.8°C)                                       | 18845                               | 18468            | 18376            | 18302              | 18138              | 2.23                          | 2.25             | 2.25             | 2.26               | 2.27               |
|                  | 32°F(-0.0°C)                                       | 18527                               | 18156            | 18065            | 17993              | 17831              | 2.15                          | 2.16             | 2.17             | 2.17               | 2.18               |
|                  | 35°F(1.7°C)                                        | 18336                               | 17969            | 17879            | 17808              | 17647              | 2.10                          | 2.11             | 2.12             | 2.12               | 2.13               |
|                  | 37°F(2.8°C)                                        | 20465                               | 20056            | 19956            | 19876              | 19697              | 2.13                          | 2.15             | 2.15             | 2.16               | 2.17               |
|                  | 42°F(5.6°C)                                        | 25789                               | 25274            | 25147            | 25047              | 24821              | 2.22                          | 2.24             | 2.24             | 2.25               | 2.25               |
|                  | 44.6°F(7.0°C)                                      | 27919                               | 27361            | 27224            | 27115              | 26871              | 2.25                          | 2.27             | 2.28             | 2.28               | 2.29               |
|                  | 47°F(8.3°C)                                        | 31114                               | 30491            | 30339            | 30218              | 29946              | 2.31                          | 2.32             | 2.33             | 2.33               | 2.34               |
|                  | 52°F(11.1°C)                                       | 29319                               | 28733            | 28589            | 28475              | 28218              | 2.07                          | 2.08             | 2.09             | 2.09               | 2.10               |
|                  | 57°F(13.9°C)                                       | 27524                               | 26974            | 26839            | 26732              | 26491              | 1.83                          | 1.84             | 1.84             | 1.85               | 1.85               |
|                  | 59°F(15.0°C)                                       | 26807                               | 26271            | 26139            | 26035              | 25800              | 1.73                          | 1.74             | 1.75             | 1.75               | 1.76               |
|                  | 62°F(16.7°C)                                       | 25730                               | 25215            | 25089            | 24989              | 24764              | 1.59                          | 1.60             | 1.60             | 1.60               | 1.61               |
|                  | 64.4°F(18.0°C)                                     | 24868                               | 24371            | 24249            | 24152              | 23935              | 1.47                          | 1.48             | 1.48             | 1.49               | 1.49               |
|                  | 69.8°F(21.0°C)                                     | 22930                               | 22472            | 22359            | 22270              | 22069              | 1.21                          | 1.22             | 1.22             | 1.23               | 1.23               |
|                  | 75.2°F(24.0°C)                                     | 20992                               | 20572            | 20469            | 20388              | 20204              | 0.95                          | 0.96             | 0.96             | 0.96               | 0.97               |

**Table 38: HEATING PERFORMANCE 30K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 882              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10384                               | 10177            | 10126            | 8069               | 7996               | 2.01                          | 2.03             | 2.03             | 2.03               | 2.04               |
|                  | -4°F(-20.0°C)                                      | 13264                               | 12999            | 12934            | 10266              | 10174              | 2.14                          | 2.16             | 2.16             | 2.17               | 2.18               |
|                  | 0°F(-17.8°C)                                       | 14565                               | 14274            | 14202            | 11270              | 11168              | 2.13                          | 2.14             | 2.15             | 2.15               | 2.16               |
|                  | 5°F(-15.0°C)                                       | 16191                               | 15867            | 15788            | 12524              | 12412              | 2.11                          | 2.13             | 2.13             | 2.13               | 2.14               |
|                  | 14°F(-10.0°C)                                      | 17189                               | 16845            | 16761            | 13259              | 13140              | 2.16                          | 2.18             | 2.18             | 2.19               | 2.19               |
|                  | 17°F(-8.3°C)                                       | 17522                               | 17172            | 17086            | 13504              | 13382              | 2.18                          | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 22°F(-5.6°C)                                       | 18539                               | 18168            | 18077            | 14307              | 14178              | 2.10                          | 2.12             | 2.12             | 2.13               | 2.14               |
|                  | 27°F(-2.8°C)                                       | 19556                               | 19165            | 19069            | 15109              | 14973              | 2.03                          | 2.04             | 2.05             | 2.05               | 2.06               |
|                  | 32°F(0.0°C)                                        | 20573                               | 20162            | 20061            | 15912              | 15769              | 1.95                          | 1.97             | 1.97             | 1.97               | 1.98               |
|                  | 35°F(1.7°C)                                        | 21183                               | 20760            | 20656            | 16394              | 16246              | 1.91                          | 1.92             | 1.93             | 1.93               | 1.94               |
|                  | 37°F(2.8°C)                                        | 22022                               | 21582            | 21474            | 17014              | 16861              | 1.94                          | 1.96             | 1.96             | 1.97               | 1.97               |
|                  | 42°F(5.6°C)                                        | 24119                               | 23637            | 23519            | 18564              | 18397              | 2.04                          | 2.05             | 2.06             | 2.06               | 2.07               |
|                  | 44.6°F(7.0°C)                                      | 24958                               | 24459            | 24337            | 19184              | 19011              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 47°F(8.3°C)                                        | 26216                               | 25692            | 25564            | 20113              | 19932              | 2.13                          | 2.15             | 2.15             | 2.16               | 2.16               |
|                  | 52°F(11.1°C)                                       | 27483                               | 26934            | 26799            | 21135              | 20944              | 2.03                          | 2.05             | 2.05             | 2.06               | 2.06               |
|                  | 57°F(13.9°C)                                       | 28750                               | 28175            | 28034            | 22156              | 21957              | 1.93                          | 1.95             | 1.95             | 1.96               | 1.96               |
|                  | 59°F(15.0°C)                                       | 29257                               | 28672            | 28528            | 22565              | 22362              | 1.89                          | 1.91             | 1.91             | 1.92               | 1.92               |
|                  | 62°F(16.7°C)                                       | 30017                               | 29417            | 29270            | 23177              | 22969              | 1.83                          | 1.85             | 1.85             | 1.86               | 1.86               |
|                  | 64.4°F(18.0°C)                                     | 30625                               | 30013            | 29863            | 23668              | 23455              | 1.79                          | 1.80             | 1.80             | 1.81               | 1.82               |
|                  | 69.8°F(21.0°C)                                     | 31994                               | 31354            | 31197            | 24771              | 24548              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 75.2°F(24.0°C)                                     | 33362                               | 32695            | 32531            | 25874              | 25641              | 1.57                          | 1.59             | 1.59             | 1.59               | 1.60               |
| 1147             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 12266                               | 12021            | 11961            | 10634              | 10539              | 2.45                          | 2.47             | 2.47             | 2.48               | 2.49               |
|                  | -4°F(-20.0°C)                                      | 15666                               | 15353            | 15276            | 13555              | 13433              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 0°F(-17.8°C)                                       | 17202                               | 16858            | 16774            | 14882              | 14748              | 2.59                          | 2.62             | 2.62             | 2.63               | 2.64               |
|                  | 5°F(-15.0°C)                                       | 19122                               | 18740            | 18646            | 16540              | 16392              | 2.57                          | 2.59             | 2.60             | 2.60               | 2.62               |
|                  | 14°F(-10.0°C)                                      | 20299                               | 19893            | 19794            | 17534              | 17376              | 2.64                          | 2.66             | 2.66             | 2.67               | 2.68               |
|                  | 17°F(-8.3°C)                                       | 20691                               | 20278            | 20176            | 17865              | 17704              | 2.66                          | 2.68             | 2.69             | 2.69               | 2.70               |
|                  | 22°F(-5.6°C)                                       | 21893                               | 21456            | 21348            | 18915              | 18745              | 2.57                          | 2.59             | 2.59             | 2.60               | 2.61               |
|                  | 27°F(-2.8°C)                                       | 23095                               | 22633            | 22520            | 19966              | 19786              | 2.47                          | 2.49             | 2.50             | 2.50               | 2.52               |
|                  | 32°F(0.0°C)                                        | 24297                               | 23811            | 23692            | 21016              | 20827              | 2.38                          | 2.40             | 2.41             | 2.41               | 2.42               |
|                  | 35°F(1.7°C)                                        | 25019                               | 24518            | 24396            | 21646              | 21451              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 37°F(2.8°C)                                        | 26008                               | 25488            | 25360            | 22483              | 22280              | 2.37                          | 2.39             | 2.40             | 2.40               | 2.41               |
|                  | 42°F(5.6°C)                                        | 28481                               | 27911            | 27771            | 24574              | 24352              | 2.49                          | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | 44.6°F(7.0°C)                                      | 29470                               | 28880            | 28736            | 25410              | 25181              | 2.53                          | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 47°F(8.3°C)                                        | 30953                               | 30334            | 30183            | 26664              | 26425              | 2.60                          | 2.62             | 2.63             | 2.63               | 2.64               |
|                  | 52°F(11.1°C)                                       | 32452                               | 31803            | 31644            | 27988              | 27736              | 2.48                          | 2.50             | 2.51             | 2.51               | 2.52               |
|                  | 57°F(13.9°C)                                       | 33950                               | 33271            | 33105            | 29312              | 29048              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.40               |
|                  | 59°F(15.0°C)                                       | 34550                               | 33859            | 33690            | 29841              | 29573              | 2.31                          | 2.33             | 2.34             | 2.34               | 2.35               |
|                  | 62°F(16.7°C)                                       | 35449                               | 34740            | 34566            | 30635              | 30360              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.28               |
|                  | 64.4°F(18.0°C)                                     | 36168                               | 35445            | 35268            | 31271              | 30989              | 2.18                          | 2.20             | 2.20             | 2.21               | 2.22               |
|                  | 69.8°F(21.0°C)                                     | 37787                               | 37031            | 36846            | 32700              | 32406              | 2.05                          | 2.07             | 2.07             | 2.08               | 2.08               |
|                  | 75.2°F(24.0°C)                                     | 39405                               | 38617            | 38424            | 34130              | 33823              | 1.92                          | 1.94             | 1.94             | 1.94               | 1.95               |

**Table 38: HEATING PERFORMANCE 30K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1676             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 14489                               | 14200            | 14129            | 14072              | 13946              | 2.88                          | 2.90             | 2.91             | 2.92               | 2.93               |
|                  | -4°F(-20.0°C)                                      | 18503                               | 18133            | 18042            | 17970              | 17808              | 3.07                          | 3.10             | 3.10             | 3.11               | 3.12               |
|                  | 0°F(-17.8°C)                                       | 20317                               | 19910            | 19811            | 19732              | 19554              | 3.06                          | 3.08             | 3.09             | 3.09               | 3.11               |
|                  | 5°F(-15.0°C)                                       | 22584                               | 22133            | 22022            | 21934              | 21736              | 3.03                          | 3.06             | 3.06             | 3.07               | 3.08               |
|                  | 14°F(-10.0°C)                                      | 23972                               | 23493            | 23375            | 23282              | 23072              | 3.11                          | 3.14             | 3.14             | 3.15               | 3.16               |
|                  | 17°F(-8.3°C)                                       | 24435                               | 23946            | 23826            | 23731              | 23517              | 3.14                          | 3.17             | 3.17             | 3.18               | 3.19               |
|                  | 22°F(-5.6°C)                                       | 25855                               | 25338            | 25211            | 25111              | 24885              | 3.03                          | 3.06             | 3.06             | 3.07               | 3.08               |
|                  | 27°F(-2.8°C)                                       | 27276                               | 26730            | 26597            | 26490              | 26252              | 2.92                          | 2.94             | 2.95             | 2.96               | 2.97               |
|                  | 32°F(-0.0°C)                                       | 28696                               | 28123            | 27982            | 27870              | 27619              | 2.81                          | 2.83             | 2.84             | 2.85               | 2.86               |
|                  | 35°F(1.7°C)                                        | 29549                               | 28958            | 28813            | 28698              | 28440              | 2.75                          | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 37°F(2.8°C)                                        | 30715                               | 30101            | 29950            | 29831              | 29562              | 2.80                          | 2.82             | 2.83             | 2.83               | 2.85               |
|                  | 42°F(5.6°C)                                        | 33631                               | 32959            | 32794            | 32663              | 32369              | 2.94                          | 2.96             | 2.97             | 2.97               | 2.99               |
|                  | 44.6°F(7.0°C)                                      | 34798                               | 34102            | 33931            | 33795              | 33491              | 2.99                          | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 47°F(8.3°C)                                        | 36547                               | 35816            | 35637            | 35495              | 35175              | 3.07                          | 3.10             | 3.11             | 3.11               | 3.12               |
|                  | 52°F(11.1°C)                                       | 38320                               | 37553            | 37366            | 37216              | 36881              | 2.93                          | 2.95             | 2.96             | 2.97               | 2.98               |
|                  | 57°F(13.9°C)                                       | 40092                               | 39290            | 39094            | 38937              | 38587              | 2.79                          | 2.81             | 2.81             | 2.82               | 2.83               |
|                  | 59°F(15.0°C)                                       | 40801                               | 39985            | 39785            | 39626              | 39269              | 2.73                          | 2.75             | 2.76             | 2.76               | 2.77               |
|                  | 62°F(16.7°C)                                       | 41865                               | 41027            | 40822            | 40659              | 40293              | 2.64                          | 2.66             | 2.67             | 2.67               | 2.68               |
|                  | 64.4°F(18.0°C)                                     | 42715                               | 41861            | 41652            | 41485              | 41112              | 2.57                          | 2.59             | 2.60             | 2.60               | 2.61               |
|                  | 69.8°F(21.0°C)                                     | 44630                               | 43737            | 43518            | 43344              | 42954              | 2.42                          | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | 75.2°F(24.0°C)                                     | 46544                               | 45613            | 45385            | 45203              | 44797              | 2.26                          | 2.28             | 2.28             | 2.29               | 2.30               |
| 2029             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 17116                               | 16774            | 16690            | 16623              | 16473              | 3.38                          | 3.41             | 3.42             | 3.42               | 3.44               |
|                  | -4°F(-20.0°C)                                      | 21854                               | 21417            | 21310            | 21224              | 21033              | 3.61                          | 3.64             | 3.65             | 3.65               | 3.67               |
|                  | 0°F(-17.8°C)                                       | 23996                               | 23516            | 23399            | 23305              | 23095              | 3.59                          | 3.62             | 3.63             | 3.63               | 3.65               |
|                  | 5°F(-15.0°C)                                       | 26674                               | 26140            | 26010            | 25906              | 25673              | 3.57                          | 3.60             | 3.60             | 3.61               | 3.63               |
|                  | 14°F(-10.0°C)                                      | 28310                               | 27744            | 27605            | 27495              | 27247              | 3.67                          | 3.70             | 3.70             | 3.71               | 3.73               |
|                  | 17°F(-8.3°C)                                       | 28856                               | 28278            | 28137            | 28025              | 27772              | 3.70                          | 3.73             | 3.74             | 3.74               | 3.76               |
|                  | 22°F(-5.6°C)                                       | 30535                               | 29924            | 29774            | 29655              | 29388              | 3.57                          | 3.60             | 3.61             | 3.61               | 3.63               |
|                  | 27°F(-2.8°C)                                       | 32214                               | 31569            | 31412            | 31286              | 31004              | 3.44                          | 3.47             | 3.48             | 3.48               | 3.50               |
|                  | 32°F(-0.0°C)                                       | 33893                               | 33215            | 33049            | 32917              | 32620              | 3.31                          | 3.34             | 3.34             | 3.35               | 3.36               |
|                  | 35°F(1.7°C)                                        | 34900                               | 34202            | 34031            | 33895              | 33590              | 3.23                          | 3.26             | 3.27             | 3.27               | 3.29               |
|                  | 37°F(2.8°C)                                        | 36276                               | 35550            | 35372            | 35231              | 34914              | 3.30                          | 3.33             | 3.33             | 3.34               | 3.35               |
|                  | 42°F(5.6°C)                                        | 39714                               | 38920            | 38725            | 38571              | 38223              | 3.46                          | 3.49             | 3.50             | 3.50               | 3.52               |
|                  | 44.6°F(7.0°C)                                      | 41090                               | 40268            | 40067            | 39906              | 39547              | 3.53                          | 3.55             | 3.56             | 3.57               | 3.58               |
|                  | 47°F(8.3°C)                                        | 43153                               | 42290            | 42078            | 41910              | 41533              | 3.62                          | 3.65             | 3.66             | 3.67               | 3.68               |
|                  | 52°F(11.1°C)                                       | 45250                               | 44345            | 44123            | 43946              | 43551              | 3.45                          | 3.48             | 3.49             | 3.49               | 3.51               |
|                  | 57°F(13.9°C)                                       | 47346                               | 46399            | 46167            | 45982              | 45569              | 3.28                          | 3.31             | 3.31             | 3.32               | 3.33               |
|                  | 59°F(15.0°C)                                       | 48185                               | 47221            | 46985            | 46797              | 46376              | 3.21                          | 3.24             | 3.25             | 3.25               | 3.26               |
|                  | 62°F(16.7°C)                                       | 49443                               | 48454            | 48211            | 48019              | 47586              | 3.11                          | 3.14             | 3.14             | 3.15               | 3.16               |
|                  | 64.4°F(18.0°C)                                     | 50449                               | 49440            | 49193            | 48996              | 48555              | 3.03                          | 3.05             | 3.06             | 3.06               | 3.08               |
|                  | 69.8°F(21.0°C)                                     | 52713                               | 51659            | 51401            | 51195              | 50734              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 75.2°F(24.0°C)                                     | 54977                               | 53878            | 53608            | 53394              | 52913              | 2.66                          | 2.68             | 2.68             | 2.69               | 2.70               |

**Table 39: HEATING PERFORMANCE 36K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 882              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 10384                               | 10177            | 10126            | 8069               | 7996               | 2.01                          | 2.03             | 2.03             | 2.03               | 2.04               |
|                  | -4°F(-20.0°C)                                      | 13264                               | 12999            | 12934            | 10266              | 10174              | 2.14                          | 2.16             | 2.16             | 2.17               | 2.18               |
|                  | 0°F(-17.8°C)                                       | 14565                               | 14274            | 14202            | 11270              | 11168              | 2.13                          | 2.14             | 2.15             | 2.15               | 2.16               |
|                  | 5°F(-15.0°C)                                       | 16191                               | 15867            | 15788            | 12524              | 12412              | 2.11                          | 2.13             | 2.13             | 2.13               | 2.14               |
|                  | 14°F(-10.0°C)                                      | 17189                               | 16845            | 16761            | 13259              | 13140              | 2.16                          | 2.18             | 2.18             | 2.19               | 2.19               |
|                  | 17°F(-8.3°C)                                       | 17522                               | 17172            | 17086            | 13504              | 13382              | 2.18                          | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 22°F(-5.6°C)                                       | 18539                               | 18168            | 18077            | 14307              | 14178              | 2.10                          | 2.12             | 2.12             | 2.13               | 2.14               |
|                  | 27°F(-2.8°C)                                       | 19556                               | 19165            | 19069            | 15109              | 14973              | 2.03                          | 2.04             | 2.05             | 2.05               | 2.06               |
|                  | 32°F(-0.0°C)                                       | 20573                               | 20162            | 20061            | 15912              | 15769              | 1.95                          | 1.97             | 1.97             | 1.97               | 1.98               |
|                  | 35°F(1.7°C)                                        | 21183                               | 20760            | 20656            | 16394              | 16246              | 1.91                          | 1.92             | 1.93             | 1.93               | 1.94               |
|                  | 37°F(2.8°C)                                        | 22022                               | 21582            | 21474            | 17014              | 16861              | 1.94                          | 1.96             | 1.96             | 1.97               | 1.97               |
|                  | 42°F(5.6°C)                                        | 24119                               | 23637            | 23519            | 18564              | 18397              | 2.04                          | 2.05             | 2.06             | 2.06               | 2.07               |
|                  | 44.6°F(7.0°C)                                      | 24958                               | 24459            | 24337            | 19184              | 19011              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 47°F(8.3°C)                                        | 26216                               | 25692            | 25564            | 20113              | 19932              | 2.13                          | 2.15             | 2.15             | 2.16               | 2.16               |
|                  | 52°F(11.1°C)                                       | 27483                               | 26934            | 26799            | 21135              | 20944              | 2.03                          | 2.05             | 2.05             | 2.06               | 2.06               |
|                  | 57°F(13.9°C)                                       | 28750                               | 28175            | 28034            | 22156              | 21957              | 1.93                          | 1.95             | 1.95             | 1.96               | 1.96               |
|                  | 59°F(15.0°C)                                       | 29257                               | 28672            | 28528            | 22565              | 22362              | 1.89                          | 1.91             | 1.91             | 1.92               | 1.92               |
|                  | 62°F(16.7°C)                                       | 30017                               | 29417            | 29270            | 23177              | 22969              | 1.83                          | 1.85             | 1.85             | 1.86               | 1.86               |
|                  | 64.4°F(18.0°C)                                     | 30625                               | 30013            | 29863            | 23668              | 23455              | 1.79                          | 1.80             | 1.80             | 1.81               | 1.82               |
|                  | 69.8°F(21.0°C)                                     | 31994                               | 31354            | 31197            | 24771              | 24548              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 75.2°F(24.0°C)                                     | 33362                               | 32695            | 32531            | 25874              | 25641              | 1.57                          | 1.59             | 1.59             | 1.59               | 1.60               |
| 1147             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 12266                               | 12021            | 11961            | 10634              | 10539              | 2.45                          | 2.47             | 2.47             | 2.48               | 2.49               |
|                  | -4°F(-20.0°C)                                      | 15666                               | 15353            | 15276            | 13555              | 13433              | 2.61                          | 2.63             | 2.64             | 2.64               | 2.65               |
|                  | 0°F(-17.8°C)                                       | 17202                               | 16858            | 16774            | 14882              | 14748              | 2.59                          | 2.62             | 2.62             | 2.63               | 2.64               |
|                  | 5°F(-15.0°C)                                       | 19122                               | 18740            | 18646            | 16540              | 16392              | 2.57                          | 2.59             | 2.60             | 2.60               | 2.62               |
|                  | 14°F(-10.0°C)                                      | 20299                               | 19893            | 19794            | 17534              | 17376              | 2.64                          | 2.66             | 2.66             | 2.67               | 2.68               |
|                  | 17°F(-8.3°C)                                       | 20691                               | 20278            | 20176            | 17865              | 17704              | 2.66                          | 2.68             | 2.69             | 2.69               | 2.70               |
|                  | 22°F(-5.6°C)                                       | 21893                               | 21456            | 21348            | 18915              | 18745              | 2.57                          | 2.59             | 2.59             | 2.60               | 2.61               |
|                  | 27°F(-2.8°C)                                       | 23095                               | 22633            | 22520            | 19966              | 19786              | 2.47                          | 2.49             | 2.50             | 2.50               | 2.52               |
|                  | 32°F(-0.0°C)                                       | 24297                               | 23811            | 23692            | 21016              | 20827              | 2.38                          | 2.40             | 2.41             | 2.41               | 2.42               |
|                  | 35°F(1.7°C)                                        | 25019                               | 24518            | 24396            | 21646              | 21451              | 2.33                          | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 37°F(2.8°C)                                        | 26008                               | 25488            | 25360            | 22483              | 22280              | 2.37                          | 2.39             | 2.40             | 2.40               | 2.41               |
|                  | 42°F(5.6°C)                                        | 28481                               | 27911            | 27771            | 24574              | 24352              | 2.49                          | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | 44.6°F(7.0°C)                                      | 29470                               | 28880            | 28736            | 25410              | 25181              | 2.53                          | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 47°F(8.3°C)                                        | 30953                               | 30334            | 30183            | 26664              | 26425              | 2.60                          | 2.62             | 2.63             | 2.63               | 2.64               |
|                  | 52°F(11.1°C)                                       | 32452                               | 31803            | 31644            | 27988              | 27736              | 2.48                          | 2.50             | 2.51             | 2.51               | 2.52               |
|                  | 57°F(13.9°C)                                       | 33950                               | 33271            | 33105            | 29312              | 29048              | 2.36                          | 2.38             | 2.38             | 2.39               | 2.40               |
|                  | 59°F(15.0°C)                                       | 34550                               | 33859            | 33690            | 29841              | 29573              | 2.31                          | 2.33             | 2.34             | 2.34               | 2.35               |
|                  | 62°F(16.7°C)                                       | 35449                               | 34740            | 34566            | 30635              | 30360              | 2.24                          | 2.26             | 2.26             | 2.27               | 2.28               |
|                  | 64.4°F(18.0°C)                                     | 36168                               | 35445            | 35268            | 31271              | 30989              | 2.18                          | 2.20             | 2.20             | 2.21               | 2.22               |
|                  | 69.8°F(21.0°C)                                     | 37787                               | 37031            | 36846            | 32700              | 32406              | 2.05                          | 2.07             | 2.07             | 2.08               | 2.08               |
|                  | 75.2°F(24.0°C)                                     | 39405                               | 38617            | 38424            | 34130              | 33823              | 1.92                          | 1.94             | 1.94             | 1.94               | 1.95               |

**Table 39: HEATING PERFORMANCE 36K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1676             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 14489                               | 14200            | 14129            | 14072              | 13946              | 2.88                          | 2.90             | 2.91             | 2.92               | 2.93               |
|                  | -4°F(-20.0°C)                                      | 18503                               | 18133            | 18042            | 17970              | 17808              | 3.07                          | 3.10             | 3.10             | 3.11               | 3.12               |
|                  | 0°F(-17.8°C)                                       | 20317                               | 19910            | 19811            | 19732              | 19554              | 3.06                          | 3.08             | 3.09             | 3.09               | 3.11               |
|                  | 5°F(-15.0°C)                                       | 22584                               | 22133            | 22022            | 21934              | 21736              | 3.03                          | 3.06             | 3.06             | 3.07               | 3.08               |
|                  | 14°F(-10.0°C)                                      | 23972                               | 23493            | 23375            | 23282              | 23072              | 3.11                          | 3.14             | 3.14             | 3.15               | 3.16               |
|                  | 17°F(-8.3°C)                                       | 24435                               | 23946            | 23826            | 23731              | 23517              | 3.14                          | 3.17             | 3.17             | 3.18               | 3.19               |
|                  | 22°F(-5.6°C)                                       | 25855                               | 25338            | 25211            | 25111              | 24885              | 3.03                          | 3.06             | 3.06             | 3.07               | 3.08               |
|                  | 27°F(-2.8°C)                                       | 27276                               | 26730            | 26597            | 26490              | 26252              | 2.92                          | 2.94             | 2.95             | 2.96               | 2.97               |
|                  | 32°F(-0.0°C)                                       | 28696                               | 28123            | 27982            | 27870              | 27619              | 2.81                          | 2.83             | 2.84             | 2.85               | 2.86               |
|                  | 35°F(1.7°C)                                        | 29549                               | 28958            | 28813            | 28698              | 28440              | 2.75                          | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 37°F(2.8°C)                                        | 30715                               | 30101            | 29950            | 29831              | 29562              | 2.80                          | 2.82             | 2.83             | 2.83               | 2.85               |
|                  | 42°F(5.6°C)                                        | 33631                               | 32959            | 32794            | 32663              | 32369              | 2.94                          | 2.96             | 2.97             | 2.97               | 2.99               |
|                  | 44.6°F(7.0°C)                                      | 34798                               | 34102            | 33931            | 33795              | 33491              | 2.99                          | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 47°F(8.3°C)                                        | 36547                               | 35816            | 35637            | 35495              | 35175              | 3.07                          | 3.10             | 3.11             | 3.11               | 3.12               |
|                  | 52°F(11.1°C)                                       | 38320                               | 37553            | 37366            | 37216              | 36881              | 2.93                          | 2.95             | 2.96             | 2.97               | 2.98               |
|                  | 57°F(13.9°C)                                       | 40092                               | 39290            | 39094            | 38937              | 38587              | 2.79                          | 2.81             | 2.81             | 2.82               | 2.83               |
|                  | 59°F(15.0°C)                                       | 40801                               | 39985            | 39785            | 39626              | 39269              | 2.73                          | 2.75             | 2.76             | 2.76               | 2.77               |
|                  | 62°F(16.7°C)                                       | 41865                               | 41027            | 40822            | 40659              | 40293              | 2.64                          | 2.66             | 2.67             | 2.67               | 2.68               |
|                  | 64.4°F(18.0°C)                                     | 42715                               | 41861            | 41652            | 41485              | 41112              | 2.57                          | 2.59             | 2.60             | 2.60               | 2.61               |
|                  | 69.8°F(21.0°C)                                     | 44630                               | 43737            | 43518            | 43344              | 42954              | 2.42                          | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | 75.2°F(24.0°C)                                     | 46544                               | 45613            | 45385            | 45203              | 44797              | 2.26                          | 2.28             | 2.28             | 2.29               | 2.30               |
| 2029             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 17116                               | 16774            | 16690            | 16623              | 16473              | 3.38                          | 3.41             | 3.42             | 3.42               | 3.44               |
|                  | -4°F(-20.0°C)                                      | 21854                               | 21417            | 21310            | 21224              | 21033              | 3.61                          | 3.64             | 3.65             | 3.65               | 3.67               |
|                  | 0°F(-17.8°C)                                       | 23996                               | 23516            | 23399            | 23305              | 23095              | 3.59                          | 3.62             | 3.63             | 3.63               | 3.65               |
|                  | 5°F(-15.0°C)                                       | 26674                               | 26140            | 26010            | 25906              | 25673              | 3.57                          | 3.60             | 3.60             | 3.61               | 3.63               |
|                  | 14°F(-10.0°C)                                      | 28310                               | 27744            | 27605            | 27495              | 27247              | 3.67                          | 3.70             | 3.70             | 3.71               | 3.73               |
|                  | 17°F(-8.3°C)                                       | 28856                               | 28278            | 28137            | 28025              | 27772              | 3.70                          | 3.73             | 3.74             | 3.74               | 3.76               |
|                  | 22°F(-5.6°C)                                       | 30535                               | 29924            | 29774            | 29655              | 29388              | 3.57                          | 3.60             | 3.61             | 3.61               | 3.63               |
|                  | 27°F(-2.8°C)                                       | 32214                               | 31569            | 31412            | 31286              | 31004              | 3.44                          | 3.47             | 3.48             | 3.48               | 3.50               |
|                  | 32°F(-0.0°C)                                       | 33893                               | 33215            | 33049            | 32917              | 32620              | 3.31                          | 3.34             | 3.34             | 3.35               | 3.36               |
|                  | 35°F(1.7°C)                                        | 34900                               | 34202            | 34031            | 33895              | 33590              | 3.23                          | 3.26             | 3.27             | 3.27               | 3.29               |
|                  | 37°F(2.8°C)                                        | 36276                               | 35550            | 35372            | 35231              | 34914              | 3.30                          | 3.33             | 3.33             | 3.34               | 3.35               |
|                  | 42°F(5.6°C)                                        | 39714                               | 38920            | 38725            | 38571              | 38223              | 3.46                          | 3.49             | 3.50             | 3.50               | 3.52               |
|                  | 44.6°F(7.0°C)                                      | 41090                               | 40268            | 40067            | 39906              | 39547              | 3.53                          | 3.55             | 3.56             | 3.57               | 3.58               |
|                  | 47°F(8.3°C)                                        | 43153                               | 42290            | 42078            | 41910              | 41533              | 3.62                          | 3.65             | 3.66             | 3.67               | 3.68               |
|                  | 52°F(11.1°C)                                       | 45250                               | 44345            | 44123            | 43946              | 43551              | 3.45                          | 3.48             | 3.49             | 3.49               | 3.51               |
|                  | 57°F(13.9°C)                                       | 47346                               | 46399            | 46167            | 45982              | 45569              | 3.28                          | 3.31             | 3.31             | 3.32               | 3.33               |
|                  | 59°F(15.0°C)                                       | 48185                               | 47221            | 46985            | 46797              | 46376              | 3.21                          | 3.24             | 3.25             | 3.25               | 3.26               |
|                  | 62°F(16.7°C)                                       | 49443                               | 48454            | 48211            | 48019              | 47586              | 3.11                          | 3.14             | 3.14             | 3.15               | 3.16               |
|                  | 64.4°F(18.0°C)                                     | 50449                               | 49440            | 49193            | 48996              | 48555              | 3.03                          | 3.05             | 3.06             | 3.06               | 3.08               |
|                  | 69.8°F(21.0°C)                                     | 52713                               | 51659            | 51401            | 51195              | 50734              | 2.84                          | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 75.2°F(24.0°C)                                     | 54977                               | 53878            | 53608            | 53394              | 52913              | 2.66                          | 2.68             | 2.68             | 2.69               | 2.70               |

**Table 40: HEATING PERFORMANCE 48K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     | 5050                                | 4949             | 4925             | 3105               | 3077               | 0.85                          | 0.86             | 0.86             | 0.87               | 0.87               |
|                  | -13°F(-25.0°C)                                     | 6616                                | 6484             | 6452             | 3912               | 3877               | 0.91                          | 0.92             | 0.92             | 0.92               | 0.93               |
|                  | -4°F(-20.0°C)                                      | 8168                                | 8005             | 7965             | 4830               | 4786               | 0.97                          | 0.98             | 0.98             | 0.99               | 0.99               |
|                  | 0°F(-17.8°C)                                       | 9233                                | 9048             | 9003             | 5459               | 5410               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 5°F(-15.0°C)                                       | 10564                               | 10353            | 10301            | 6246               | 6190               | 0.94                          | 0.95             | 0.95             | 0.96               | 0.96               |
|                  | 14°F(-10.0°C)                                      | 11183                               | 10959            | 10904            | 6612               | 6552               | 0.96                          | 0.97             | 0.97             | 0.98               | 0.98               |
|                  | 17°F(-8.3°C)                                       | 11389                               | 11161            | 11105            | 6734               | 6673               | 0.97                          | 0.98             | 0.98             | 0.98               | 0.99               |
|                  | 22°F(-5.6°C)                                       | 10923                               | 10704            | 10651            | 6458               | 6400               | 0.97                          | 0.98             | 0.98             | 0.98               | 0.98               |
|                  | 27°F(-2.8°C)                                       | 10456                               | 10247            | 10196            | 6182               | 6127               | 0.96                          | 0.97             | 0.97             | 0.98               | 0.98               |
|                  | 32°F(-0.0°C)                                       | 9990                                | 9790             | 9741             | 5907               | 5853               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 35°F(1.7°C)                                        | 9710                                | 9516             | 9469             | 5741               | 5690               | 0.96                          | 0.97             | 0.97             | 0.97               | 0.98               |
|                  | 37°F(2.8°C)                                        | 10809                               | 10593            | 10540            | 6391               | 6333               | 0.96                          | 0.96             | 0.97             | 0.97               | 0.97               |
|                  | 42°F(5.6°C)                                        | 13556                               | 13285            | 13219            | 8015               | 7943               | 0.94                          | 0.95             | 0.95             | 0.96               | 0.96               |
|                  | 44.6°F(7.0°C)                                      | 14655                               | 14362            | 14290            | 8665               | 8587               | 0.94                          | 0.95             | 0.95             | 0.95               | 0.95               |
|                  | 47°F(8.3°C)                                        | 16303                               | 15977            | 15897            | 9639               | 9553               | 0.93                          | 0.94             | 0.94             | 0.94               | 0.95               |
|                  | 52°F(11.1°C)                                       | 16027                               | 15707            | 15628            | 9476               | 9391               | 0.86                          | 0.87             | 0.87             | 0.87               | 0.87               |
|                  | 57°F(13.9°C)                                       | 15751                               | 15436            | 15359            | 9312               | 9229               | 0.79                          | 0.79             | 0.80             | 0.80               | 0.80               |
|                  | 59°F(15.0°C)                                       | 15640                               | 15327            | 15251            | 9247               | 9164               | 0.76                          | 0.77             | 0.77             | 0.77               | 0.77               |
|                  | 62°F(16.7°C)                                       | 15474                               | 15165            | 15089            | 9149               | 9067               | 0.72                          | 0.72             | 0.72             | 0.72               | 0.73               |
|                  | 64.4°F(18.0°C)                                     | 15342                               | 15035            | 14960            | 9071               | 8989               | 0.68                          | 0.69             | 0.69             | 0.69               | 0.69               |
|                  | 69.8°F(21.0°C)                                     | 13408                               | 13140            | 13074            | 7927               | 7856               | 0.60                          | 0.61             | 0.61             | 0.61               | 0.61               |
|                  | 75.2°F(24.0°C)                                     | 11603                               | 11371            | 11314            | 6860               | 6798               | 0.52                          | 0.53             | 0.53             | 0.53               | 0.53               |
| 688              | -22°F(-30.0°C)                                     | 5702                                | 5588             | 5560             | 4406               | 4367               | 1.07                          | 1.08             | 1.08             | 1.08               | 1.09               |
|                  | -13°F(-25.0°C)                                     | 7325                                | 7179             | 7143             | 5551               | 5501               | 1.14                          | 1.15             | 1.15             | 1.15               | 1.16               |
|                  | -4°F(-20.0°C)                                      | 9044                                | 8863             | 8818             | 6853               | 6791               | 1.22                          | 1.23             | 1.23             | 1.23               | 1.24               |
|                  | 0°F(-17.8°C)                                       | 10222                               | 10018            | 9968             | 7746               | 7676               | 1.20                          | 1.21             | 1.21             | 1.21               | 1.22               |
|                  | 5°F(-15.0°C)                                       | 11696                               | 11462            | 11404            | 8863               | 8783               | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 14°F(-10.0°C)                                      | 12381                               | 12133            | 12072            | 9382               | 9297               | 1.20                          | 1.21             | 1.22             | 1.22               | 1.22               |
|                  | 17°F(-8.3°C)                                       | 12609                               | 12357            | 12295            | 9555               | 9469               | 1.21                          | 1.22             | 1.22             | 1.23               | 1.23               |
|                  | 22°F(-5.6°C)                                       | 12093                               | 11851            | 11792            | 9164               | 9081               | 1.21                          | 1.22             | 1.22             | 1.22               | 1.23               |
|                  | 27°F(-2.8°C)                                       | 11577                               | 11345            | 11288            | 8772               | 8693               | 1.21                          | 1.22             | 1.22             | 1.22               | 1.23               |
|                  | 32°F(-0.0°C)                                       | 11060                               | 10839            | 10785            | 8381               | 8306               | 1.20                          | 1.21             | 1.21             | 1.22               | 1.22               |
|                  | 35°F(1.7°C)                                        | 10751                               | 10536            | 10483            | 8147               | 8073               | 1.20                          | 1.21             | 1.21             | 1.21               | 1.22               |
|                  | 37°F(2.8°C)                                        | 11967                               | 11728            | 11669            | 9068               | 8987               | 1.19                          | 1.20             | 1.21             | 1.21               | 1.21               |
|                  | 42°F(5.6°C)                                        | 15009                               | 14709            | 14635            | 11373              | 11271              | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 44.6°F(7.0°C)                                      | 16225                               | 15901            | 15821            | 12295              | 12184              | 1.17                          | 1.18             | 1.19             | 1.19               | 1.19               |
|                  | 47°F(8.3°C)                                        | 18050                               | 17689            | 17601            | 13678              | 13555              | 1.17                          | 1.18             | 1.18             | 1.18               | 1.18               |
|                  | 52°F(11.1°C)                                       | 17744                               | 17389            | 17302            | 13446              | 13325              | 1.08                          | 1.08             | 1.09             | 1.09               | 1.09               |
|                  | 57°F(13.9°C)                                       | 17438                               | 17089            | 17004            | 13214              | 13095              | 0.99                          | 0.99             | 0.99             | 1.00               | 1.00               |
|                  | 59°F(15.0°C)                                       | 17316                               | 16969            | 16885            | 13121              | 13003              | 0.95                          | 0.96             | 0.96             | 0.96               | 0.96               |
|                  | 62°F(16.7°C)                                       | 17132                               | 16790            | 16706            | 12982              | 12865              | 0.89                          | 0.90             | 0.90             | 0.91               | 0.91               |
|                  | 64.4°F(18.0°C)                                     | 16985                               | 16646            | 16562            | 12871              | 12755              | 0.85                          | 0.86             | 0.86             | 0.86               | 0.86               |
|                  | 69.8°F(21.0°C)                                     | 14844                               | 14547            | 14475            | 11249              | 11147              | 0.75                          | 0.76             | 0.76             | 0.76               | 0.77               |
|                  | 75.2°F(24.0°C)                                     | 12846                               | 12589            | 12526            | 9734               | 9647               | 0.66                          | 0.66             | 0.66             | 0.66               | 0.67               |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**Table 40: HEATING PERFORMANCE 48K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     | 6438                                | 6309             | 6278             | 6253               | 6196               | 1.26                          | 1.27             | 1.27             | 1.27               | 1.28               |
|                  | -13°F(-25.0°C)                                     | 8110                                | 7948             | 7908             | 7876               | 7805               | 1.34                          | 1.35             | 1.35             | 1.36               | 1.36               |
|                  | -4°F(-20.0°C)                                      | 10013                               | 9812             | 9763             | 9724               | 9637               | 1.43                          | 1.44             | 1.45             | 1.45               | 1.45               |
|                  | 0°F(-17.8°C)                                       | 11317                               | 11091            | 11036            | 10992              | 10893              | 1.41                          | 1.42             | 1.43             | 1.43               | 1.43               |
|                  | 5°F(-15.0°C)                                       | 12949                               | 12690            | 12626            | 12576              | 12463              | 1.39                          | 1.40             | 1.40             | 1.40               | 1.41               |
|                  | 14°F(-10.0°C)                                      | 13707                               | 13433            | 13366            | 13312              | 13193              | 1.42                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 17°F(-8.3°C)                                       | 13960                               | 13681            | 13612            | 13558              | 13436              | 1.43                          | 1.44             | 1.44             | 1.44               | 1.45               |
|                  | 22°F(-5.6°C)                                       | 13388                               | 13121            | 13055            | 13003              | 12886              | 1.42                          | 1.43             | 1.44             | 1.44               | 1.45               |
|                  | 27°F(-2.8°C)                                       | 12817                               | 12561            | 12498            | 12448              | 12336              | 1.42                          | 1.43             | 1.43             | 1.44               | 1.44               |
|                  | 32°F(-0.0°C)                                       | 12245                               | 12001            | 11941            | 11893              | 11786              | 1.41                          | 1.43             | 1.43             | 1.43               | 1.44               |
|                  | 35°F(1.7°C)                                        | 11903                               | 11664            | 11606            | 11560              | 11456              | 1.41                          | 1.42             | 1.43             | 1.43               | 1.43               |
|                  | 37°F(2.8°C)                                        | 13249                               | 12984            | 12920            | 12868              | 12752              | 1.41                          | 1.42             | 1.42             | 1.42               | 1.43               |
|                  | 42°F(5.6°C)                                        | 16617                               | 16284            | 16203            | 16138              | 15993              | 1.39                          | 1.40             | 1.40             | 1.41               | 1.41               |
|                  | 44.6°F(7.0°C)                                      | 17964                               | 17604            | 17516            | 17446              | 17289              | 1.38                          | 1.39             | 1.40             | 1.40               | 1.40               |
|                  | 47°F(8.3°C)                                        | 19984                               | 19584            | 19486            | 19408              | 19234              | 1.37                          | 1.38             | 1.39             | 1.39               | 1.39               |
|                  | 52°F(11.1°C)                                       | 19645                               | 19252            | 19156            | 19079              | 18908              | 1.27                          | 1.28             | 1.28             | 1.28               | 1.29               |
|                  | 57°F(13.9°C)                                       | 19306                               | 18920            | 18826            | 18750              | 18582              | 1.16                          | 1.17             | 1.17             | 1.17               | 1.18               |
|                  | 59°F(15.0°C)                                       | 19171                               | 18788            | 18694            | 18619              | 18451              | 1.12                          | 1.13             | 1.13             | 1.13               | 1.13               |
|                  | 62°F(16.7°C)                                       | 18968                               | 18588            | 18495            | 18421              | 18256              | 1.05                          | 1.06             | 1.06             | 1.07               | 1.07               |
|                  | 64.4°F(18.0°C)                                     | 18805                               | 18429            | 18337            | 18264              | 18099              | 1.00                          | 1.01             | 1.01             | 1.01               | 1.02               |
|                  | 69.8°F(21.0°C)                                     | 16435                               | 16106            | 16025            | 15961              | 15818              | 0.89                          | 0.89             | 0.90             | 0.90               | 0.90               |
|                  | 75.2°F(24.0°C)                                     | 14222                               | 13938            | 13868            | 13813              | 13688              | 0.77                          | 0.78             | 0.78             | 0.78               | 0.78               |
| 1147             | -22°F(-30.0°C)                                     | 7128                                | 6985             | 6950             | 6922               | 6860               | 1.48                          | 1.49             | 1.49             | 1.50               | 1.50               |
|                  | -13°F(-25.0°C)                                     | 8979                                | 8799             | 8755             | 8720               | 8642               | 1.58                          | 1.59             | 1.59             | 1.60               | 1.60               |
|                  | -4°F(-20.0°C)                                      | 11085                               | 10864            | 10809            | 10766              | 10669              | 1.68                          | 1.70             | 1.70             | 1.70               | 1.71               |
|                  | 0°F(-17.8°C)                                       | 12530                               | 12279            | 12218            | 12169              | 12060              | 1.66                          | 1.67             | 1.68             | 1.68               | 1.69               |
|                  | 5°F(-15.0°C)                                       | 14336                               | 14049            | 13979            | 13923              | 13798              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 14°F(-10.0°C)                                      | 15176                               | 14872            | 14798            | 14739              | 14606              | 1.67                          | 1.68             | 1.68             | 1.69               | 1.69               |
|                  | 17°F(-8.3°C)                                       | 15456                               | 15147            | 15071            | 15011              | 14875              | 1.68                          | 1.69             | 1.70             | 1.70               | 1.71               |
|                  | 22°F(-5.6°C)                                       | 14823                               | 14526            | 14454            | 14396              | 14266              | 1.67                          | 1.69             | 1.69             | 1.69               | 1.70               |
|                  | 27°F(-2.8°C)                                       | 14190                               | 13906            | 13837            | 13781              | 13657              | 1.67                          | 1.68             | 1.69             | 1.69               | 1.70               |
|                  | 32°F(-0.0°C)                                       | 13557                               | 13286            | 13220            | 13167              | 13048              | 1.66                          | 1.68             | 1.68             | 1.68               | 1.69               |
|                  | 35°F(1.7°C)                                        | 13178                               | 12914            | 12850            | 12798              | 12683              | 1.66                          | 1.67             | 1.68             | 1.68               | 1.69               |
|                  | 37°F(2.8°C)                                        | 14669                               | 14376            | 14304            | 14246              | 14118              | 1.65                          | 1.67             | 1.67             | 1.67               | 1.68               |
|                  | 42°F(5.6°C)                                        | 18397                               | 18029            | 17939            | 17867              | 17706              | 1.63                          | 1.65             | 1.65             | 1.65               | 1.66               |
|                  | 44.6°F(7.0°C)                                      | 19888                               | 19490            | 19393            | 19315              | 19142              | 1.63                          | 1.64             | 1.64             | 1.65               | 1.65               |
|                  | 47°F(8.3°C)                                        | 22125                               | 21682            | 21574            | 21488              | 21294              | 1.61                          | 1.63             | 1.63             | 1.63               | 1.64               |
|                  | 52°F(11.1°C)                                       | 21750                               | 21315            | 21208            | 21124              | 20933              | 1.49                          | 1.50             | 1.50             | 1.51               | 1.51               |
|                  | 57°F(13.9°C)                                       | 21375                               | 20947            | 20843            | 20759              | 20572              | 1.36                          | 1.37             | 1.38             | 1.38               | 1.39               |
|                  | 59°F(15.0°C)                                       | 21225                               | 20800            | 20696            | 20614              | 20428              | 1.31                          | 1.32             | 1.33             | 1.33               | 1.33               |
|                  | 62°F(16.7°C)                                       | 21000                               | 20580            | 20477            | 20395              | 20211              | 1.24                          | 1.25             | 1.25             | 1.25               | 1.26               |
|                  | 64.4°F(18.0°C)                                     | 20820                               | 20403            | 20301            | 20220              | 20038              | 1.18                          | 1.19             | 1.19             | 1.19               | 1.20               |
|                  | 69.8°F(21.0°C)                                     | 18195                               | 17832            | 17742            | 17671              | 17512              | 1.04                          | 1.05             | 1.05             | 1.06               | 1.06               |
|                  | 75.2°F(24.0°C)                                     | 15746                               | 15431            | 15354            | 15293              | 15155              | 0.91                          | 0.92             | 0.92             | 0.92               | 0.92               |

**Table 41: HEATING PERFORMANCE 55K - Mixed**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F(-30.0°C)                                     |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|                  | -13°F(-25.0°C)                                     | 15254                               | 14949            | 14874            | 12492              | 12380              | 3.29                          | 3.31             | 3.32             | 3.33               | 3.34               |
|                  | -4°F(-20.0°C)                                      | 19929                               | 19531            | 19433            | 16501              | 16353              | 3.56                          | 3.59             | 3.59             | 3.60               | 3.61               |
|                  | 0°F(-17.8°C)                                       | 21484                               | 21054            | 20949            | 17763              | 17603              | 3.54                          | 3.56             | 3.57             | 3.57               | 3.59               |
|                  | 5°F(-15.0°C)                                       | 23428                               | 22959            | 22844            | 19340              | 19166              | 3.51                          | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 14°F(-10.0°C)                                      | 24073                               | 23591            | 23474            | 19855              | 19677              | 3.48                          | 3.51             | 3.51             | 3.52               | 3.54               |
|                  | 17°F(-8.3°C)                                       | 24288                               | 23802            | 23683            | 20027              | 19847              | 3.47                          | 3.50             | 3.51             | 3.52               | 3.53               |
|                  | 22°F(-5.6°C)                                       | 25306                               | 24800            | 24676            | 20918              | 20729              | 3.37                          | 3.40             | 3.40             | 3.41               | 3.43               |
|                  | 27°F(-2.8°C)                                       | 26325                               | 25798            | 25669            | 21808              | 21612              | 3.26                          | 3.29             | 3.30             | 3.31               | 3.32               |
|                  | 32°F(-0.0°C)                                       | 27343                               | 26796            | 26662            | 22699              | 22494              | 3.16                          | 3.19             | 3.19             | 3.20               | 3.22               |
|                  | 35°F(1.7°C)                                        | 27954                               | 27395            | 27258            | 23233              | 23024              | 3.10                          | 3.12             | 3.13             | 3.14               | 3.15               |
|                  | 37°F(2.8°C)                                        | 29219                               | 28635            | 28492            | 24245              | 24027              | 3.13                          | 3.15             | 3.16             | 3.17               | 3.18               |
|                  | 42°F(5.6°C)                                        | 32381                               | 31733            | 31575            | 26777              | 26535              | 3.20                          | 3.23             | 3.23             | 3.24               | 3.25               |
|                  | 44.6°F(7.0°C)                                      | 33646                               | 32973            | 32808            | 27789              | 27539              | 3.23                          | 3.25             | 3.26             | 3.27               | 3.28               |
|                  | 47°F(8.3°C)                                        | 35544                               | 34833            | 34658            | 29307              | 29044              | 3.27                          | 3.30             | 3.31             | 3.31               | 3.32               |
|                  | 52°F(11.1°C)                                       | 35400                               | 34692            | 34519            | 29326              | 29062              | 3.01                          | 3.03             | 3.04             | 3.04               | 3.06               |
|                  | 57°F(13.9°C)                                       | 35257                               | 34552            | 34379            | 29344              | 29080              | 2.75                          | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 59°F(15.0°C)                                       | 35200                               | 34496            | 34323            | 29351              | 29087              | 2.64                          | 2.66             | 2.67             | 2.67               | 2.68               |
|                  | 62°F(16.7°C)                                       | 35113                               | 34411            | 34239            | 29362              | 29098              | 2.48                          | 2.50             | 2.51             | 2.51               | 2.52               |
|                  | 64.4°F(18.0°C)                                     | 35045                               | 34344            | 34172            | 29371              | 29106              | 2.36                          | 2.37             | 2.38             | 2.38               | 2.40               |
|                  | 69.8°F(21.0°C)                                     | 32914                               | 32256            | 32095            | 27608              | 27359              | 2.07                          | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 75.2°F(24.0°C)                                     | 31076                               | 30455            | 30302            | 26076              | 25841              | 1.79                          | 1.80             | 1.81             | 1.81               | 1.82               |
| 688              | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 18339                               | 17973            | 17883            | 16313              | 16165              | 3.75                          | 3.78             | 3.79             | 3.80               | 3.81               |
|                  | -4°F(-20.0°C)                                      | 23872                               | 23395            | 23278            | 21352              | 21160              | 4.05                          | 4.08             | 4.09             | 4.10               | 4.11               |
|                  | 0°F(-17.8°C)                                       | 25747                               | 25232            | 25106            | 23012              | 22805              | 4.03                          | 4.05             | 4.06             | 4.07               | 4.09               |
|                  | 5°F(-15.0°C)                                       | 28091                               | 27529            | 27391            | 25088              | 24862              | 3.99                          | 4.02             | 4.03             | 4.04               | 4.06               |
|                  | 14°F(-10.0°C)                                      | 28874                               | 28296            | 28155            | 25775              | 25542              | 3.97                          | 4.00             | 4.01             | 4.02               | 4.03               |
|                  | 17°F(-8.3°C)                                       | 29135                               | 28552            | 28409            | 26004              | 25770              | 3.96                          | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 22°F(-5.6°C)                                       | 30331                               | 29724            | 29576            | 27105              | 26861              | 3.84                          | 3.88             | 3.89             | 3.89               | 3.91               |
|                  | 27°F(-2.8°C)                                       | 31528                               | 30897            | 30743            | 28207              | 27953              | 3.73                          | 3.76             | 3.76             | 3.77               | 3.78               |
|                  | 32°F(-0.0°C)                                       | 32724                               | 32070            | 31909            | 29308              | 29045              | 3.61                          | 3.64             | 3.64             | 3.65               | 3.67               |
|                  | 35°F(1.7°C)                                        | 33442                               | 32773            | 32610            | 29969              | 29699              | 3.54                          | 3.57             | 3.57             | 3.58               | 3.60               |
|                  | 37°F(2.8°C)                                        | 34974                               | 34275            | 34103            | 31317              | 31035              | 3.57                          | 3.60             | 3.60             | 3.61               | 3.63               |
|                  | 42°F(5.6°C)                                        | 38805                               | 38029            | 37839            | 34685              | 34373              | 3.65                          | 3.68             | 3.69             | 3.70               | 3.71               |
|                  | 44.6°F(7.0°C)                                      | 40337                               | 39531            | 39333            | 36033              | 35708              | 3.68                          | 3.71             | 3.72             | 3.73               | 3.74               |
|                  | 47°F(8.3°C)                                        | 42636                               | 41783            | 41574            | 38054              | 37712              | 3.73                          | 3.76             | 3.77             | 3.78               | 3.79               |
|                  | 52°F(11.1°C)                                       | 42397                               | 41549            | 41341            | 37931              | 37590              | 3.43                          | 3.46             | 3.46             | 3.47               | 3.49               |
|                  | 57°F(13.9°C)                                       | 42158                               | 41315            | 41109            | 37807              | 37467              | 3.13                          | 3.15             | 3.16             | 3.16               | 3.18               |
|                  | 59°F(15.0°C)                                       | 42063                               | 41221            | 41015            | 37758              | 37418              | 3.00                          | 3.03             | 3.03             | 3.04               | 3.05               |
|                  | 62°F(16.7°C)                                       | 41919                               | 41081            | 40876            | 37684              | 37345              | 2.82                          | 2.84             | 2.85             | 2.85               | 2.87               |
|                  | 64.4°F(18.0°C)                                     | 41805                               | 40969            | 40764            | 37625              | 37286              | 2.68                          | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 69.8°F(21.0°C)                                     | 39253                               | 38468            | 38275            | 35343              | 35025              | 2.35                          | 2.37             | 2.38             | 2.38               | 2.39               |
|                  | 75.2°F(24.0°C)                                     | 37056                               | 36315            | 36133            | 33371              | 33071              | 2.02                          | 2.04             | 2.04             | 2.04               | 2.05               |

**Table 41: HEATING PERFORMANCE 55K - Mixed (Continued)**

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                               |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB °F (°C)                              | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)          |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions(DB °F (°C))       |                  |                  |                    |                    | Indoor Conditions(DB °F (°C)) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)            | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 1006             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 22071                               | 21630            | 21522            | 21436              | 21243              | 4.29                          | 4.32             | 4.33             | 4.34               | 4.36               |
|                  | -4°F(-20.0°C)                                      | 28624                               | 28052            | 27911            | 27800              | 27549              | 4.62                          | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 0°F(-17.8°C)                                       | 30887                               | 30270            | 30118            | 29997              | 29728              | 4.59                          | 4.62             | 4.63             | 4.64               | 4.66               |
|                  | 5°F(-15.0°C)                                       | 33716                               | 33042            | 32877            | 32745              | 32450              | 4.55                          | 4.59             | 4.59             | 4.60               | 4.62               |
|                  | 14°F(-10.0°C)                                      | 34666                               | 33973            | 33803            | 33668              | 33365              | 4.53                          | 4.57             | 4.58             | 4.59               | 4.60               |
|                  | 17°F(-8.3°C)                                       | 34982                               | 34283            | 34112            | 33975              | 33669              | 4.52                          | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 22°F(-5.6°C)                                       | 36389                               | 35662            | 35484            | 35342              | 35023              | 4.39                          | 4.42             | 4.43             | 4.44               | 4.46               |
|                  | 27°F(-2.8°C)                                       | 37796                               | 37040            | 36855            | 36708              | 36377              | 4.25                          | 4.29             | 4.30             | 4.30               | 4.32               |
|                  | 32°F(0.0°C)                                        | 39203                               | 38419            | 38227            | 38074              | 37731              | 4.12                          | 4.15             | 4.16             | 4.17               | 4.18               |
|                  | 35°F(1.7°C)                                        | 40047                               | 39246            | 39050            | 38894              | 38544              | 4.03                          | 4.07             | 4.08             | 4.09               | 4.10               |
|                  | 37°F(2.8°C)                                        | 41905                               | 41067            | 40862            | 40698              | 40332              | 4.08                          | 4.11             | 4.12             | 4.13               | 4.14               |
|                  | 42°F(5.6°C)                                        | 46550                               | 45619            | 45390            | 45209              | 44802              | 4.17                          | 4.20             | 4.21             | 4.22               | 4.24               |
|                  | 44.6°F(7.0°C)                                      | 48408                               | 47439            | 47202            | 47013              | 46590              | 4.21                          | 4.24             | 4.25             | 4.26               | 4.28               |
|                  | 47°F(8.3°C)                                        | 51194                               | 50170            | 49919            | 49720              | 49272              | 4.26                          | 4.30             | 4.31             | 4.31               | 4.33               |
|                  | 52°F(11.1°C)                                       | 50827                               | 49810            | 49562            | 49363              | 48919              | 3.91                          | 3.94             | 3.95             | 3.96               | 3.97               |
|                  | 57°F(13.9°C)                                       | 50460                               | 49451            | 49204            | 49007              | 48566              | 3.57                          | 3.59             | 3.60             | 3.60               | 3.62               |
|                  | 59°F(15.0°C)                                       | 50313                               | 49307            | 49061            | 48864              | 48424              | 3.42                          | 3.45             | 3.46             | 3.47               | 3.48               |
|                  | 62°F(16.7°C)                                       | 50093                               | 49091            | 48846            | 48650              | 48213              | 3.21                          | 3.24             | 3.24             | 3.25               | 3.26               |
|                  | 64.4°F(18.0°C)                                     | 49917                               | 48919            | 48674            | 48480              | 48043              | 3.04                          | 3.07             | 3.08             | 3.08               | 3.09               |
|                  | 69.8°F(21.0°C)                                     | 46856                               | 45919            | 45690            | 45507              | 45097              | 2.67                          | 2.69             | 2.69             | 2.70               | 2.71               |
|                  | 75.2°F(24.0°C)                                     | 44227                               | 43342            | 43126            | 42953              | 42567              | 2.29                          | 2.31             | 2.31             | 2.32               | 2.32               |
| 1147             | -22°F(-30.0°C)                                     | 0                                   | 0                | 0                | 0                  | 0                  | 0.00                          | 0.00             | 0.00             | 0.00               | 0.00               |
|                  | -13°F(-25.0°C)                                     | 26589                               | 26057            | 25928            | 25823              | 25591              | 4.91                          | 4.95             | 4.96             | 4.96               | 4.98               |
|                  | -4°F(-20.0°C)                                      | 34356                               | 33668            | 33500            | 33366              | 33066              | 5.26                          | 5.31             | 5.32             | 5.33               | 5.35               |
|                  | 0°F(-17.8°C)                                       | 37090                               | 36348            | 36167            | 36022              | 35698              | 5.23                          | 5.28             | 5.29             | 5.30               | 5.32               |
|                  | 5°F(-15.0°C)                                       | 40508                               | 39698            | 39500            | 39342              | 38988              | 5.19                          | 5.23             | 5.24             | 5.25               | 5.28               |
|                  | 14°F(-10.0°C)                                      | 41663                               | 40829            | 40625            | 40463              | 40098              | 5.18                          | 5.22             | 5.23             | 5.24               | 5.26               |
|                  | 17°F(-8.3°C)                                       | 42047                               | 41206            | 41000            | 40836              | 40468              | 5.17                          | 5.21             | 5.22             | 5.23               | 5.26               |
|                  | 22°F(-5.6°C)                                       | 43702                               | 42828            | 42613            | 42443              | 42061              | 5.02                          | 5.06             | 5.07             | 5.08               | 5.10               |
|                  | 27°F(-2.8°C)                                       | 45356                               | 44449            | 44227            | 44050              | 43654              | 4.86                          | 4.90             | 4.91             | 4.92               | 4.94               |
|                  | 32°F(0.0°C)                                        | 47011                               | 46071            | 45840            | 45657              | 45247              | 4.71                          | 4.74             | 4.75             | 4.76               | 4.78               |
|                  | 35°F(1.7°C)                                        | 48004                               | 47044            | 46809            | 46621              | 46202              | 4.61                          | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 37°F(2.8°C)                                        | 50259                               | 49254            | 49007            | 48811              | 48372              | 4.65                          | 4.69             | 4.70             | 4.71               | 4.73               |
|                  | 42°F(5.6°C)                                        | 55895                               | 54778            | 54503            | 54286              | 53797              | 4.76                          | 4.80             | 4.81             | 4.82               | 4.84               |
|                  | 44.6°F(7.0°C)                                      | 58150                               | 56987            | 56702            | 56475              | 55967              | 4.81                          | 4.85             | 4.86             | 4.87               | 4.89               |
|                  | 47°F(8.3°C)                                        | 61532                               | 60302            | 60000            | 59760              | 59222              | 4.88                          | 4.92             | 4.93             | 4.94               | 4.96               |
|                  | 52°F(11.1°C)                                       | 60994                               | 59774            | 59475            | 59237              | 58704              | 4.47                          | 4.51             | 4.51             | 4.52               | 4.54               |
|                  | 57°F(13.9°C)                                       | 60456                               | 59247            | 58951            | 58715              | 58186              | 4.07                          | 4.10             | 4.10             | 4.11               | 4.13               |
|                  | 59°F(15.0°C)                                       | 60241                               | 59036            | 58741            | 58506              | 57980              | 3.90                          | 3.93             | 3.94             | 3.95               | 3.96               |
|                  | 62°F(16.7°C)                                       | 59919                               | 58720            | 58426            | 58193              | 57669              | 3.66                          | 3.69             | 3.69             | 3.70               | 3.72               |
|                  | 64.4°F(18.0°C)                                     | 59660                               | 58467            | 58175            | 57942              | 57420              | 3.47                          | 3.49             | 3.50             | 3.51               | 3.52               |
|                  | 69.8°F(21.0°C)                                     | 55986                               | 54866            | 54592            | 54374              | 53884              | 3.02                          | 3.05             | 3.06             | 3.06               | 3.07               |
|                  | 75.2°F(24.0°C)                                     | 52837                               | 51780            | 51521            | 51315              | 50853              | 2.59                          | 2.61             | 2.61             | 2.62               | 2.63               |

## APPLICATION DATA

### Unit Selection

When selecting a variable speed system, match the system capacity range to the anticipated load range. Since a variable speed system can accommodate a wide range of loads it is important to understand the percentage of time that the system will be required to run at both the maximum and the minimum load points. This differential is most evident when a residential application is compared with a commercial application.

Generally there is more load diversification in the residential application (shifting from a low load to a high load). The commercial application tends to be steadier during the normal day time hours, and will drop to low load levels after normal business hours. If it is anticipated that the system needs to run at the maximum load point for the majority of the time, the next larger system capacity should be selected.

The Application table below provides a guideline for selecting the appropriate size for the application.

**NOTE: Refer to the most current version of the compatibility chart for a list of the approved indoor units for each outdoor size.**

## INDOOR UNIT COMPATIBILITY

### Multi-zone

| Two Zone |         | Three Zone |
|----------|---------|------------|
| 6 + 6    | 9 + 12  | 6 + 6 + 6  |
| 6 + 9    | 9 + 18  | 6 + 6 + 9  |
| 6 + 12   | 12 + 12 | 6 + 6 + 12 |
| 6 + 18   | 12 + 18 | 6 + 9 + 9  |
| 9 + 9    | 18 + 18 |            |

For multizone systems with 1 Air Handler: All available multizone combinations are listed in red and italicized. Please refer to Heat Pump installation manuals for full installation stipulations.

If 2 Air Handlers are required in a system: Up to 2 AHUs can be used for the following combinations only: 18+18, 18+24, 18+30, 18+36, 24+24, 24+30, 30+30, 24+36, 30+30, 30+36, 36+36. In the case that 2 AHU units are selected, no other units may be connected to the outdoor unit, regardless of remaining ports or capacity availability.

**Safety Notice:** When pairing indoor units with multizone outdoor systems, ensure that all matched indoor units are equipped with an integrated refrigerant leak detection sensor.

This sensor is critical for compliance with safety standards and enables the system to automatically shut down in the event of a refrigerant leak, preventing hazardous conditions and maintaining system integrity.

| Available IDUs |                                                            | Two Zones |       | Three Zones |             |              |              | Four Zones   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 | Five Zones   |  |  |  | Six Zones |  |  |  |
|----------------|------------------------------------------------------------|-----------|-------|-------------|-------------|--------------|--------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------|--------------|--|--|--|-----------|--|--|--|
| 37MGRQAQ18CA3  | High Wall<br>6K/9K/<br>12K/18K<br>/24K                     | 6+6       | 9+24  |             | 6+6+<br>6   | 6+12+<br>12  | 6+9+1<br>8   |              | <div>Installation Notes and Considerations</div> <div>Approved connected combinations, reference product data for official connected heating and cooling capacities</div> <div>For high tier 18K high wall indoor units, they are considered as 24K unit in the multi-zone combination. (Same chassis size with mid tier 24K High wall)</div> <div>For high tier 6K/9K/12K high wall indoor units, they are considered as 18K unit in the multi-zone combination. (Same chassis with mid tier 18K High wall)</div> <div>For the 45MBFA Floor Console, 16k units should be considered as 18k units in the multi-zone combination chart.</div> <div>For One-way Cassette series, it should be considered as 18K unit in combination chart because the 6K/9K/12K/18K sizes are the same.</div> <div>In the table below consider 36k and 33k mid-tier high wall as equivalent indoor units. Please check AHRI for 33k vs 36k performance data.</div> |                |                 |              |  |  |  |           |  |  |  |
|                |                                                            | 6+9       | 12+12 |             | 6+6+<br>9   | 6+12+<br>18  | 9+9+1<br>8   |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                |                                                            | 6+12      | 12+18 |             | 6+6+<br>12  | 9+9+9        |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                | Cassette/<br>Duct/<br>Console<br>6K/9K/<br>12K/18K<br>/24K | 6+18      | 12+24 |             | 6+6+<br>18  | 9+9+1<br>2   |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                |                                                            | 6+24      | 18+18 |             | 6+6+<br>24  | 9+9+1<br>8   |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                |                                                            | 9+9       | 6+18  |             | 6+9+<br>9   | 9+12+<br>12  |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                | Vertical Air<br>Handler<br>18K                             | 9+12      | 9+18  |             | 6+9+<br>12  | 12+12<br>+12 |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
|                |                                                            | 9+18      | 12+18 |             | 6+9+<br>18  | 6+6+1<br>8   |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |
| 37MGRQAQ24DA3  | High Wall<br>6K/9K/<br>12K/18K/<br>24K                     | 6+18      | 6+18  |             | 6+6+<br>6   | 6+12+<br>18  | 9+12+<br>24  | 6+12+1<br>8  | 6+6+6+6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6+6+12+<br>18  | 6+12+12<br>+18  | 6+6+9+1<br>8 |  |  |  |           |  |  |  |
|                |                                                            | 6+24      | 6+24  |             | 6+6+<br>9   | 6+12+<br>24  | 9+18+<br>18  | 6+12+2<br>4  | 6+6+6+9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6+6+12+<br>24  | 9+9+9+9         | 6+6+9+2<br>4 |  |  |  |           |  |  |  |
|                |                                                            | 9+9       | 9+18  |             | 6+6+<br>12  | 6+18+<br>18  | 12+12<br>+12 | 9+9+18       | 6+6+6+1<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+6+18+<br>18  | 9+9+9+1<br>2    | 6+9+9+1<br>8 |  |  |  |           |  |  |  |
|                | Cassette/<br>Duct/<br>Console<br>6K/9K/<br>12K/18K/<br>24K | 9+12      | 9+24  |             | 6+6+<br>18  | 6+18+<br>24  | 12+12<br>+18 | 9+9+24       | 6+6+6+1<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+9+9+9        | 9+9+9+1<br>8    | 6+9+9+2<br>4 |  |  |  |           |  |  |  |
|                |                                                            | 9+18      | 12+18 |             | 6+6+<br>24  | 9+9+9        | 12+12<br>+24 | 9+12+1<br>8  | 6+6+6+2<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+9+9+1<br>2   | 9+9+12+<br>12   | 9+9+9+1<br>8 |  |  |  |           |  |  |  |
|                |                                                            | 9+24      | 18+18 |             | 6+9+<br>9   | 9+9+1<br>2   | 12+18<br>+18 | 9+12+2<br>4  | 6+6+9+9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6+9+9+1<br>8   | 9+9+12+<br>18   |              |  |  |  |           |  |  |  |
|                | Vertical Air<br>Handler<br>18K/24K                         | 12+12     | 12+24 |             | 6+9+<br>12  | 9+9+1<br>8   | 6+6+1<br>8   | 12+12+<br>18 | 6+6+9+1<br>2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+9+9+2<br>4   | 9+12+12<br>+12  |              |  |  |  |           |  |  |  |
|                |                                                            | 12+18     | 18+18 |             | 6+9+<br>18  | 9+9+2<br>4   | 6+6+2<br>4   | 12+12+<br>24 | 6+6+9+1<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+9+12+<br>12  | 12+12+1<br>2+12 |              |  |  |  |           |  |  |  |
|                |                                                            | 12+24     | 18+18 |             | 6+9+<br>24  | 9+12+<br>12  | 6+9+1<br>8   |              | 6+6+9+2<br>4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6+9+12+<br>18  | 6+6+6+1<br>8    |              |  |  |  |           |  |  |  |
|                |                                                            | 18+18     |       |             | 6+12<br>+12 | 9+12+<br>18  | 6+9+2<br>4   |              | 6+6+12+<br>12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6+12+12<br>+12 | 6+6+6+2<br>4    |              |  |  |  |           |  |  |  |
|                |                                                            |           |       |             |             |              |              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |                 |              |  |  |  |           |  |  |  |

| Available IDUs               |                                                            | Two Zones |       |       | Three Zones |              |               |              | Four Zones    |               |                |                 |                |                 |                | Five Zones       |                 |  |  | Six Zones |  |
|------------------------------|------------------------------------------------------------|-----------|-------|-------|-------------|--------------|---------------|--------------|---------------|---------------|----------------|-----------------|----------------|-----------------|----------------|------------------|-----------------|--|--|-----------|--|
| 37MGRAQ30EA3<br>37MGRAQ36EA3 | High Wall<br>6K/9K/<br>12K/18K/<br>24K/30K/<br>36K         | 6+24      | 24+24 | 9+36  | 6+6+<br>12  | 6+18+<br>24  | 12+12+<br>+24 | 9+9+18       | 6+6+6+6       | 6+6+12+<br>24 | 6+9+12+<br>36  | 9+9+12+<br>12   | 6+6+6+2<br>4   | 9+12+12<br>+18  | 6+12+12<br>+30 | 6+6+6+6+<br>6    | 6+9+9+9+<br>12  |  |  |           |  |
|                              |                                                            | 6+30      | 12+36 | 12+18 | 6+6+<br>18  | 6+24+<br>24  | 12+18<br>+18  | 9+9+24       | 6+6+6+9       | 6+6+18+<br>18 | 6+9+18+<br>18  | 9+9+12+<br>18   | 6+6+9+1<br>8   | 9+12+12<br>+24  |                | 6+6+6+6+<br>9    | 6+9+9+12<br>+12 |  |  |           |  |
|                              |                                                            | 6+36      | 18+18 | 12+24 | 6+6+<br>24  | 9+9+9        | 12+18<br>+24  | 9+9+30       | 6+6+6+1<br>2  | 6+6+18+<br>24 | 6+9+18+<br>24  | 9+9+12+<br>24   | 6+6+9+2<br>4   | 12+12+1<br>2+18 |                | 6+6+6+6+<br>12   | 9+9+9+9+<br>9   |  |  |           |  |
|                              |                                                            | 9+18      | 18+24 | 12+30 | 6+6+<br>30  | 9+9+1<br>2   | 12+24<br>+24  | 9+12+1<br>8  | 6+6+6+1<br>8  | 6+6+18+<br>30 | 6+9+18+<br>30  | 9+9+18+<br>18   | 6+6+12+<br>18  | 12+12+1<br>2+24 |                | 6+6+6+6+<br>18   | 9+9+9+9+<br>12  |  |  |           |  |
|                              |                                                            | 9+24      | 18+30 | 12+36 | 6+6+<br>36  | 9+9+1<br>8   | 18+18<br>+18  | 9+12+2<br>4  | 6+6+6+2<br>4  | 6+6+24+<br>24 | 6+12+12<br>+12 | 9+9+18+<br>24   | 6+6+12+<br>24  | 6+6+6+3<br>0    |                | 6+6+6+9+<br>9    | 6+6+6+6+<br>18  |  |  |           |  |
|                              | Cassette/<br>Duct/<br>Console<br>6K/9K/<br>12K/18K/<br>24K | 9+30      | 18+36 | 18+18 | 6+9+<br>9   | 9+9+2<br>4   | 6+6+1<br>8    | 12+12+<br>18 | 6+6+6+3<br>0  | 6+9+9+9       | 6+12+12<br>+18 | 9+12+12<br>+12  | 6+9+9+1<br>8   | 6+6+6+3<br>6    |                | 6+6+6+9+<br>12   | 6+6+6+9+<br>18  |  |  |           |  |
|                              |                                                            | 9+36      | 24+24 | 18+24 | 6+9+<br>12  | 9+9+3<br>0   | 6+6+2<br>4    | 12+12+<br>24 | 6+6+6+3<br>6  | 6+9+9+1<br>2  | 6+12+12<br>+24 | 9+12+12<br>+18  | 6+9+9+2<br>4   | 6+6+9+3<br>0    |                | 6+6+6+9+<br>18   | 6+6+9+9+<br>18  |  |  |           |  |
|                              |                                                            | 12+12     | 24+30 | 18+30 | 6+9+<br>18  | 9+12+<br>12  | 6+6+3<br>0    | 6+24+2<br>4  | 6+6+9+9       | 6+9+9+1<br>8  | 6+12+12<br>+30 | 9+12+12<br>+24  | 6+9+12+<br>18  | 6+6+9+3<br>6    |                | 6+6+6+12<br>+12  |                 |  |  |           |  |
|                              |                                                            | 12+18     | 6+18  | 24+24 | 6+9+<br>24  | 9+12+<br>18  | 6+6+3<br>6    | 9+24+2<br>4  | 6+6+9+1<br>2  | 6+9+9+2<br>4  | 6+12+18<br>+18 | 9+12+18<br>+18  | 6+9+12+<br>24  | 6+6+18+<br>30   |                | 6+6+6+12<br>+18  |                 |  |  |           |  |
|                              |                                                            | 12+24     | 6+24  | 18+18 | 6+9+<br>30  | 9+12+<br>24  | 6+9+1<br>8    | 12+24+<br>24 | 6+6+9+1<br>8  | 6+9+9+3<br>0  | 6+12+18<br>+24 | 9+18+18<br>+18  | 6+12+12<br>+18 | 6+6+24+<br>24   |                | 6+6+9+9+<br>9    |                 |  |  |           |  |
|                              | Vertical Air<br>Handler<br>18K/24K/<br>30K/36K             | 12+30     | 6+30  | 18+24 | 6+12<br>+12 | 9+18+<br>18  | 6+9+2<br>4    |              | 6+6+9+2<br>4  | 6+9+9+3<br>6  | 6+18+18<br>+18 | 12+12+1<br>2+12 | 6+12+12<br>+24 | 6+9+9+3<br>0    |                | 6+6+9+9+<br>12   |                 |  |  |           |  |
|                              |                                                            | 12+36     | 6+36  | 18+30 | 6+12<br>+18 | 9+18+<br>24  | 6+9+3<br>0    |              | 6+6+9+3<br>0  | 6+9+12+<br>12 | 9+9+9+9        | 12+12+1<br>2+18 | 9+9+9+1<br>8   | 6+9+9+3<br>6    |                | 6+6+9+9+<br>18   |                 |  |  |           |  |
|                              |                                                            | 18+18     | 9+18  | 24+24 | 6+12<br>+24 | 9+24+<br>24  | 6+12+<br>18   |              | 6+6+9+3<br>6  | 6+9+12+<br>18 | 9+9+9+1<br>2   | 12+12+1<br>2+24 | 9+9+9+2<br>4   | 6+9+12+<br>30   |                | 6+6+9+12<br>+12  |                 |  |  |           |  |
|                              |                                                            | 18+24     | 9+24  |       | 6+12<br>+30 | 12+12<br>+12 | 6+12+<br>24   |              | 6+6+12+<br>12 | 6+9+12+<br>24 | 9+9+9+1<br>8   | 12+12+1<br>8+18 | 9+9+12+<br>18  | 6+9+12+<br>36   |                | 6+6+12+1<br>2+12 |                 |  |  |           |  |
|                              |                                                            | 18+30     | 9+30  |       | 6+18<br>+18 | 12+12<br>+18 | 6+12+<br>30   |              | 6+6+12+<br>18 | 6+9+12+<br>30 | 9+9+9+2<br>4   | 6+6+6+1<br>8    | 9+9+12+<br>24  | 6+9+18+<br>30   |                | 6+9+9+9+<br>9    |                 |  |  |           |  |

| Available IDUs               |                                                            | Two Zones |       |       | Three Zones   |                |                |                |                | Four Zones      |                  |                  |                     |                     |                  |                 | Five Zones       |                      |                        |                         |                         |                        |                  | Six Zones           |                    |                    |  |  |
|------------------------------|------------------------------------------------------------|-----------|-------|-------|---------------|----------------|----------------|----------------|----------------|-----------------|------------------|------------------|---------------------|---------------------|------------------|-----------------|------------------|----------------------|------------------------|-------------------------|-------------------------|------------------------|------------------|---------------------|--------------------|--------------------|--|--|
| 37MGRAQ48FA3<br>37MGRAQ55FA3 | High Wall<br>6K/9K/<br>12K/18K/<br>24K/30K<br>/36K         | 6+24      | 24+36 | 24+30 | 6+6+18<br>18  | 6+18+36<br>36  | 12+12+18<br>18 | 6+9+36<br>36   | 18+18+18<br>18 | 6+6+6+6<br>6    | 6+9+9+1<br>8     | 6+12+12+36<br>36 | 9+12+12+12<br>12    | 6+9+9+1<br>8        | 9+9+12+30<br>30  | 6+9+18+30<br>30 | 6+6+6+6<br>6     | 6+6+6+18<br>+24      | 6+6+18+8+24<br>8+24    | 6+12+12+12+18<br>12+18  | 9+9+18+18+18<br>8+18    | 6+9+12+12+24<br>2+24   | 6+6+6+6+6<br>+6  | 6+6+6+9+1<br>2+24   | 6+9+9+9+9<br>+12   | 9+9+9+9+9<br>2+18  |  |  |
|                              |                                                            | 6+30      | 6+18  | 24+36 | 6+6+24<br>24  | 9+9+9<br>9     | 12+12+24<br>24 | 6+12+12+8<br>8 | 18+18+24<br>24 | 6+6+6+9<br>6    | 6+9+9+2<br>4     | 6+12+18+18<br>18 | 9+12+12+18<br>18    | 6+9+9+2<br>4        | 6+9+12+36<br>36  |                 | 6+6+6+6+9<br>9   | 6+6+9+9+9<br>9       | 6+9+9+9+9<br>9         | 6+12+12+12+24<br>12+24  | 9+12+12+12+18<br>12+18  | 6+12+12+12+18<br>12+18 | 6+6+6+6+6<br>+9  | 6+6+6+12+1<br>12+12 | 6+9+9+9+9<br>+18   | 9+9+9+9+9<br>2+24  |  |  |
|                              |                                                            | 6+36      | 6+24  | 30+30 | 6+6+30<br>30  | 9+9+12<br>12   | 12+12+30<br>30 | 6+12+24+4<br>4 |                | 6+6+6+12<br>2   | 6+9+9+3<br>0     | 6+12+18+24<br>24 | 9+12+12+24<br>24    | 6+9+12+18<br>18     | 6+9+18+30<br>30  |                 | 6+6+6+6+18<br>18 | 6+6+9+9+18<br>18     | 6+9+9+9+18<br>18       | 6+12+18+18+18<br>18+18  | 9+12+12+12+24<br>12+24  | 9+9+9+9+24<br>24       | 6+6+6+6+6<br>+12 | 6+6+6+12+2<br>12+24 | 6+9+9+9+9<br>2+12  | 9+9+9+9+9<br>12+18 |  |  |
|                              |                                                            | 9+18      | 6+30  | 36+36 | 6+6+36<br>36  | 9+9+18<br>18   | 12+12+36<br>36 | 6+12+30+0<br>0 |                | 6+6+6+18<br>8   | 6+9+9+3<br>6     | 6+18+18+18<br>18 | 9+12+18+18<br>18    | 6+9+12+24<br>24     | 6+6+24+24<br>24  |                 | 6+6+6+6+18<br>18 | 6+6+9+9+18<br>18     | 6+9+9+9+18<br>18       | 6+12+18+18+18<br>18+18  | 9+12+12+12+24<br>12+24  | 9+9+9+9+24<br>24       | 6+6+6+6+6<br>+18 | 6+6+6+12+2<br>12+24 | 6+9+9+9+9<br>2+12  | 9+9+9+9+9<br>12+18 |  |  |
|                              |                                                            | 9+24      | 6+36  | 18+24 | 6+9+9<br>9    | 9+9+24<br>24   | 12+18+18<br>18 | 6+12+36+6<br>6 |                | 6+6+6+24<br>4   | 6+9+12+12<br>12  | 6+18+18+24<br>24 | 9+12+18+24<br>24    | 6+12+12+18<br>18    | 6+9+9+30<br>0    |                 | 6+6+6+6+24<br>24 | 6+6+9+9+24<br>24     | 6+9+9+9+24<br>24       | 9+9+9+9+9<br>9          | 9+12+12+18+18<br>18+18  | 9+9+9+12+24<br>24      | 6+6+6+6+6<br>+24 | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>2+18  | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 9+30      | 9+18  | 18+30 | 6+9+12<br>12  | 9+9+36<br>36   | 12+18+18<br>18 | 9+9+18<br>18   |                | 6+6+9+9<br>6    | 6+9+12+18<br>18  | 9+9+9+9+9<br>9   | 9+18+18+18<br>18    | 6+12+12+24<br>24    | 6+9+9+36<br>6    |                 | 6+6+6+6+30<br>30 | 6+6+9+9+30<br>30     | 6+9+9+9+30<br>30       | 12+12+12+12+12<br>12+12 | 9+9+9+12+18<br>18       | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>2+24  | 9+9+9+9+9<br>12+18 |  |  |
|                              | Cassette/<br>Duct/<br>Console<br>6K/9K/<br>12K/18K/<br>24K | 9+36      | 9+24  | 18+36 | 6+9+18<br>18  | 9+9+36<br>36   | 12+18+30<br>30 | 9+9+24<br>24   |                | 6+6+9+12<br>2   | 6+9+12+24<br>24  | 9+9+9+12<br>12   | 12+12+12+12<br>2+12 | 9+9+9+18<br>8       | 6+9+12+30<br>30  |                 | 6+6+6+6+36<br>36 | 6+6+9+12+12<br>12    | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 12+12+12+12+12<br>12+12 | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 12+12     | 9+30  | 24+24 | 6+9+24<br>24  | 9+12+12<br>12  | 12+18+36<br>36 | 9+9+30<br>30   |                | 6+6+9+18<br>8   | 6+9+12+30<br>30  | 9+9+9+12<br>12   | 12+12+12+18<br>2+18 | 9+9+9+24<br>4       | 6+9+12+36<br>36  |                 | 6+6+6+6+36<br>36 | 6+6+9+12+12<br>12    | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 12+12+12+12+12<br>12+12 | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 12+18     | 9+36  | 24+30 | 6+9+30<br>30  | 9+12+18<br>18  | 12+24+24<br>24 | 9+9+36<br>36   |                | 6+6+9+24<br>4   | 6+9+12+36<br>36  | 9+9+9+12<br>12   | 12+12+12+18<br>2+18 | 9+9+12+18<br>18     | 6+9+18+30<br>30  |                 | 6+6+6+6+36<br>36 | 6+6+9+12+12<br>12    | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 12+12+12+12+12<br>12+12 | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 12+24     | 12+18 | 24+36 | 6+9+36<br>36  | 9+12+24<br>24  | 18+18+18<br>18 | 9+12+18<br>8   |                | 6+6+12+12<br>12 | 6+9+18+18<br>18  | 9+9+9+12<br>12   | 12+12+12+18<br>8+18 | 9+9+12+24<br>24     | 6+9+24+24<br>24  |                 | 6+6+6+6+36<br>36 | 6+6+9+12+18<br>18    | 6+9+9+12+18<br>18      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 12+30     | 12+24 | 30+30 | 6+12+12<br>12 | 9+12+30<br>30  | 18+18+24<br>24 | 9+12+24<br>4   |                | 6+6+12+18<br>18 | 6+9+18+24<br>24  | 9+9+9+12<br>12   | 12+12+12+18<br>8+18 | 9+12+12+18<br>18    | 6+12+12+30<br>30 |                 | 6+6+6+6+36<br>36 | 6+6+9+12+18<br>18    | 6+9+9+12+18<br>18      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 12+36     | 12+30 | 30+36 | 6+12+18<br>18 | 9+12+36<br>36  | 6+6+18+8<br>8  | 9+12+30+0<br>0 |                | 6+6+12+24<br>24 | 6+9+18+30<br>30  | 9+9+12+18<br>18  | 12+12+12+18<br>8+18 | 9+12+12+24<br>24    | 6+12+12+36<br>36 |                 | 6+6+6+6+36<br>36 | 6+6+9+12+18<br>18    | 6+9+9+12+18<br>18      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              | Vertical Air<br>Handler<br>18K/24K/<br>30K/36K             | 18+18     | 12+36 | 36+36 | 6+12+24<br>24 | 9+18+18<br>18  | 6+6+24+6<br>6  | 9+12+36+6<br>6 |                | 6+6+18+18<br>18 | 6+9+18+30<br>30  | 9+9+12+18<br>18  | 6+6+6+12+18<br>2+18 | 12+12+12+24<br>24   | 6+6+18+30<br>30  |                 | 6+6+6+6+36<br>36 | 6+6+12+12+12<br>12   | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 18+24     | 18+18 |       | 6+12+30<br>30 | 9+18+24<br>24  | 6+6+30+0<br>0  | 9+24+24+4<br>4 |                | 6+6+18+24<br>24 | 6+9+24+24<br>24  | 9+9+12+24<br>24  | 6+6+6+24+4<br>4     | 12+12+12+24<br>2+24 | 6+6+24+24<br>24  |                 | 6+6+6+6+36<br>36 | 6+6+12+12+12<br>12   | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 18+30     | 18+24 |       | 6+12+36<br>36 | 9+18+30<br>30  | 6+6+36+6<br>6  | 12+12+18<br>18 |                | 6+6+18+30<br>30 | 6+12+12+12<br>12 | 9+9+12+30<br>30  | 6+6+9+18+8<br>8     | 6+9+24+24<br>24     | 6+9+9+36<br>6    |                 | 6+6+6+6+36<br>36 | 6+6+12+12+12<br>12   | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 18+36     | 18+30 |       | 6+18+18<br>18 | 9+18+36<br>36  | 6+9+12+8<br>8  | 12+12+24<br>24 |                | 6+6+24+24<br>24 | 6+12+12+12<br>12 | 9+9+12+36<br>36  | 6+6+9+24+4<br>4     | 6+12+12+30<br>30    | 6+9+9+36<br>6    |                 | 6+6+6+6+36<br>36 | 6+6+12+12+12<br>12   | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 24+24     | 18+36 |       | 6+18+24<br>24 | 9+24+36<br>36  | 6+9+24+4<br>4  | 12+12+30<br>30 |                | 6+9+9+9<br>6    | 6+12+12+24<br>24 | 9+9+18+18<br>18  | 6+6+12+18<br>18     | 9+9+9+30<br>0       | 6+9+12+30<br>30  |                 | 6+6+6+6+36<br>36 | 6+6+12+12+12<br>12   | 6+9+9+12+12<br>12      | 9+9+9+9+12<br>12        | 6+6+6+6+12<br>12        | 9+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |
|                              |                                                            | 24+30     | 24+24 |       | 6+18+30<br>30 | 12+12+12<br>12 | 6+9+36+0<br>0  | 12+24+24<br>24 |                | 6+9+9+12<br>2   | 6+12+12+30<br>30 | 9+9+18+24<br>24  | 6+6+12+24<br>24     | 9+9+9+36<br>6       | 6+9+12+36<br>36  |                 | 6+6+6+6+36<br>36 | 6+6+18+18+18<br>8+18 | 6+12+12+12+12<br>12+12 | 9+9+9+12+12<br>12       | 6+9+9+12+18<br>18       | 6+9+9+12+18<br>18      | 6+6+6+6+9<br>9   | 6+6+6+9+9<br>9      | 6+9+9+9+9<br>12+12 | 9+9+9+9+9<br>12+12 |  |  |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

## UNIT MOUNTING (OUTDOOR)

Refer to the unit's installation instructions for further details.

**Support** – A location which can bear the weight of outdoor unit.

See “DIMENSIONS AND WEIGHTS (HEAT PUMP MODELS)” on page 5 for weights, and dimensions..

**Unit Leveling** – For reliable operation, units should be level in all planes.

**Clearances** – Minimum clearances (See Fig. 7), must be provided for airflow. The outdoor units are designed for free-blow applications. Air inlets and outlets should not be restricted.

**Unit location** – A location which is convenient to installation and not exposed to strong wind.

**NOTE: Do not install the indoor or outdoor units in a location with special environmental conditions. For those applications, contact your sales representative.**

### System Operating Conditions

|            | COOLING                | HEATING                 |
|------------|------------------------|-------------------------|
| Outdoor DB | -13 / 122°F (30/ 50°C) | -13 / 75°F (-30 / 24°C) |

### Metering Devices

The outdoor unit has multiple electronic expansion valves to manage the refrigerant flow to the different indoor fan coils connected to that unit.

## WIRING

All wires must be sized per NEC (National Electrical Code) or CEC (Canadian Electrical Code) and local codes. Use Electrical Data table MCA (minimum circuit amps) and MOCP (maximum over current protection) to correctly size the wires and the disconnect fuse or breakers respectively.

### RECOMMENDED CONNECTION METHOD FOR POWER AND COMMUNICATION WIRING:

The main power is supplied to the outdoor unit. The field supplied 14/3 stranded wire with ground with a 600 volt insulation rating, power/communication wiring from the outdoor unit to indoor unit consists of four (4) wires and provides the power for the indoor unit. Two wires are line voltage AC power, one is communication wiring (S) and the other is a ground wire. Wiring between indoor and outdoor unit is polarity sensitive. The use of BX wire is **NOT** recommended.

If installed in a high Electromagnetic field (EMF) area and communication issues exists, a 14/2 stranded shielded wire can be used to replace L2 and (S) between outdoor unit and indoor unit landing the shield onto ground in the outdoor unit only.

| CABLE            | CABLE SIZE | REMARKS                      |
|------------------|------------|------------------------------|
| Connection Cable | 14AWG      | 3 wire + Ground 1Φ 208/230 V |



## WARNING

### EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Wires should be sized based on NEC and local codes.



## WARNING

### EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.

Be sure to comply with local codes while running wire from the indoor unit to the outdoor unit.

Every wire must be connected firmly. Loose wiring may cause the terminal to overheat or result in unit malfunction. A fire hazard may also exist. Ensure all wiring is tightly connected.

No wire should touch the refrigerant tubing, compressor or any moving parts.

Disconnecting means must be provided and shall be located within sight and readily accessible from the air conditioner.

Connecting cable with conduit shall be routed through the hole in the conduit panel.

PIPING REQUIREMENTS

Important: Both refrigerant lines must be insulated separately.

The minimum refrigerant line length between the indoor and outdoor units is 10 ft. (3 m). The following lengths are allowed. The following **Refrigerant Piping Table** lists the pipe sizes for the outdoor unit. For the indoor unit pipe sizes refer to the indoor unit installation instructions.

Refrigerant Piping:

Line sets to be sized based on the connection size of the indoor unit. Each pipe should be insulated individually.

| OUTDOOR MODEL                      |                                                                                                             |             | D5CMRAH18CAK      | D5CMRAH24DAK                       | D5CMRAH30EAK                       | D5CMRAH36EAK                       | D5CMRAH48FAK                       | D5CMRAH55FAK                       |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------|-------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| PIPING AND REFRIGERANT INFORMATION | REFRIGERANT TYPE                                                                                            | TYPE        | R454B             | R454B                              | R454B                              | R454B                              | R454B                              | R454B                              |
|                                    | Charge Amount                                                                                               | lb. (kg)    | 3.86(1.75)        | 5.29(2.4)                          | 7.54(3.42)                         | 7.54(3.42)                         | 9.26(4.2)                          | 9.48(4.3)                          |
|                                    | Liquid Pipe (size - connection type)                                                                        | In (mm)     | 3x1/4in(3x6.35mm) | 4x1/4in(4x6.35mm)                  | 5x1/4in(5x6.35mm)                  | 5x1/4in(5x6.35mm)                  | 6x1/4in(5x6.35mm)                  | 6x1/4in(5x6.35mm)                  |
|                                    | Suction Pipe (size - connection type)                                                                       | In (mm)     | 3x3/8in(3x9.52mm) | 3x3/8in+1x1/2in(3x9.52mm+1x12.7mm) | 3x3/8in+2x1/2in(3x9.52mm+2x12.7mm) | 3x3/8in+2x1/2in(3x9.52mm+2x12.7mm) | 4x3/8in+2x1/2in(4x9.52mm+2x12.7mm) | 4x3/8in+2x1/2in(4x9.52mm+2x12.7mm) |
|                                    | Min. Piping Length per each indoor unit                                                                     | ft. (m)     | 10 (3)            | 10 (3)                             | 10 (3)                             | 10 (3)                             | 10 (3)                             | 10 (3)                             |
|                                    | Standard Piping Length per each indoor unit                                                                 | ft. (m)     | 24.6 (7.5)        | 24.6 (7.5)                         | 24.6 (7.5)                         | 24.6 (7.5)                         | 24.6 (7.5)                         | 24.6 (7.5)                         |
|                                    | Max. outdoor-indoor height difference (OU higher than IU)                                                   | ft. (m)     | 49.21(15)         | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          |
|                                    | Max. outdoor-indoor height difference (IU higher than OU)                                                   | ft. (m)     | 49.21(15)         | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          | 49.21(15)                          |
|                                    | Max. Piping Length with no additional refrigerant charge per System (Standard Piping length x No. of Zones) | ft. (m)     | 73.8 (22.5)       | 98.4(30)                           | 123(37.5)                          | 123(37.5)                          | 147.6(45)                          | 147.6(45)                          |
|                                    | Additional refrigerant charge (between Standard – Max piping length)                                        | Oz/ft (g/m) | 0.16(15)          | 0.16(15)                           | 0.16(15)                           | 0.16(15)                           | 0.16(15)                           | 0.16(15)                           |
|                                    | Max. Length per each indoor unit                                                                            | ft. (m)     | 98.4(30)          | 114.8(35)                          | 114.8(35)                          | 114.8(35)                          | 114.8(35)                          | 114.8(35)                          |
|                                    | Total Maximum Piping Length per system                                                                      | ft. (m)     | 196.9(60)         | 262.5(80)                          | 262.5(80)                          | 262.5(80)                          | 328(100)                           | 328(100)                           |
|                                    | Number of IDU                                                                                               | ft. (m)     | 3                 | 4                                  | 5                                  | 5                                  | 6                                  | 6                                  |

NOTE: For piping runs greater than the “Maximum Piping Length with no additional refrigerant charge per System”, see the Additional Refrigerant Charge note in the Long-Line Applications section.

## General Guidelines:

1. The outdoor units are shipped with a full charge of R-454B refrigerant. For runs over the Maximum Piping Length with no additional refrigerant charge per system, consult "Refrigerant Piping:" on page 144 for proper charge adjustments.
2. Refrigerant lines should not be buried in the ground. If it is necessary to bury the lines, do not bury more than 36 inches (914 mm). Provide a minimum of 6 inch (152 mm) vertical rise to the service valves to prevent refrigerant migration.
3. Both lines must be insulated. Use a minimum of ½-inch (12.7 mm) thick insulation. Closed-cell insulation is recommended in all long-line applications.
4. Special consideration should be given to isolating the interconnecting tubing from the building structure. Isolate the tubing so vibration or noise does not transmit into the structure.

## Long-Line Applications

- No change in line sizing is required.

**NOTE: Multi-zone outdoor unit compatibility can support up to two (2) AHUs per unit. The combination of up to two (2) AHUs extends to only the 18K and 24K AHU models. In the case that two (2) AHUs are connected to any multi-zone system, no other units may be connected to the outdoor unit, regardless of remaining ports or capacity availability. See "APPLICATION DATA" on page 139 for unit selection guide criteria. When the 30K or 36K AHU is utilized in multi-zone 48K or 55K ODU applications, 500 grams (17.6 oz) of additional refrigerant charge must be added to the system.**

**NOTE: If the calculation results in a negative number, no additional refrigerant is required.**

## Drain Connections

Install drains that meet the local plumbing codes.

## Control System

The D5CMRA unit is equipped with a microprocessor control to operate the system and give optimum levels of comfort and operating efficiency. There are microprocessor boards and thermistors located in both the indoor and outdoor units. The thermistors monitor the system operation and control the operating mode.

## Sequence of Operation

**NOTE: Simultaneous heating and cooling is not allowed.**

The **HEATING** mode is the system's primary mode and the mode controls the operation mode for the remaining indoor units connected to the same outdoor unit. If any unit in the system is set to the **HEATING** mode, the system switches to heat. If any unit is in the **COOLING** mode, while any unit in the system is set to the **HEATING** mode, the units set to **COOLING** enter the **CONFLICT** mode and an error message appears on the units in the **COOLING** mode.

All units must be set to the **COOLING** or **FAN** mode for the system to cool. When a unit is set to the **COOL**, **HEAT** or **DRY** mode, the electronic expansion valve is initialized first (closed) and then it is opened to a preset position.

**SUPERHEAT** heating for each fan coil (the ones that are energized) is monitored and the position of the electronic expansion valve is adjusted to ensure that each fan coil gets the appropriate amount of refrigerant to maintain the required superheat. In the **COOLING** mode, after the set point is satisfied, the electronic expansion valve remains open for a specified time to ensure the system pressures equalize. In the **HEATING** mode, after the set point is satisfied, the electronic expansion valve remains open to ensure proper oil flow back and to maintain a low pressure.

When the system is set for the **COOL**, **HEAT** or **DRY** mode, the compressor speed is varied by comparing the indoor air temperature with the set point and continuously adjusting the compressor speed (to keep the compressor running as long as possible) in an effort to maintain the greatest comfort possible.

The indoor fan can run in either the **MANUAL** or **AUTO** mode. When the fan runs in the **AUTO** mode, the speed is determined by comparing the room temperature to the set point.

For High Walls and Floor Console Fan Coils, when the set point is satisfied, the fan speed is reduced. For Cassettes and Ducted Fan Coils when the set point is satisfied, the fan continues to run. The Fan Coils are not de-energized.

When the unit goes through the defrost cycle, the indoor fans are de-energized and the refrigerant is circulated through all the fan coils (even if they are off or were in the standby mode before the defrost cycle) to maximize the heat transfer surface area available for defrost operation.



## WARNING

**AUTO** mode is recommended for use on single zone applications **ONLY**. **AUTO** mode is **NOT** recommended for use on multi-zone applications.

Using **AUTO** changeover on multi-zone applications could set an indoor unit to **Standby** mode, indicated as (--) on the display, and turn off the indoor unit until all the indoor units are on the same mode (**COOLING** or **HEATING**).

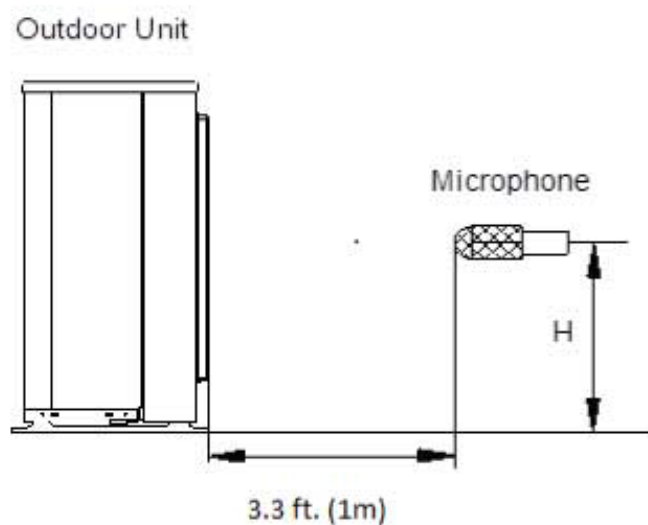
**HEATING** mode is the priority for the system. Simultaneous **HEATING** and **COOLING** is not allowed.

**AIRFLOW DATA**

| UNIT SIZE     | 18         | 24     | 30     | 36     | 48     | 55     |
|---------------|------------|--------|--------|--------|--------|--------|
| VOLTAGE       | (208/230V) |        |        |        |        |        |
| OUTDOOR (CFM) | 1765.7     | 2130.7 | 2148.3 | 2148.3 | 4502.6 | 4502.6 |

**SOUND PRESSURE**

| SYSTEM SIZE                  |       | 18          | 24 | 30   | 36   | 48 | 55 |
|------------------------------|-------|-------------|----|------|------|----|----|
|                              |       | (208/230 V) |    |      |      |    |    |
| OUTDOOR SOUND PRESSURE LEVEL | DB(A) | 59.5        | 61 | 64.5 | 64.5 | 63 | 65 |

**OUTDOOR UNIT SOUND PRESSURE TEST CONDITIONS****Fig. 8 — Outdoor Unit Sound Pressure Test Conditions**

**NOTE:** H = 0.5 x Height of the outdoor unit.

|         | INDOOR CONDITION |               | OUTDOOR CONDITION |               |
|---------|------------------|---------------|-------------------|---------------|
|         | DB               | WB            | DB                | WB            |
| COOLING | 80.6°F (27°C)    | 66.2°F (19°C) | 95°F (35°C)       | 75.2°F (24°C) |
| HEATING | 68°F (20°C)      | 59°F (15°C)   | 44.6°F (7°C)      | 42.8°F (6°C)  |

FAN AND MOTOR SPECIFICATIONS

Table 42: Fan and Motor Specifications

| Outdoor model                      |                  |             | D5CMRAH18CAK                    | D5CMRAH24DAK                    | D5CMRAH30EAK                    | D5CMRAH36EAK                    | D5CMRAH48FAK                    | D5CMRAH55FAK                    |
|------------------------------------|------------------|-------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| POWER SUPPLY                       |                  | V;<br>Ph;Hz | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           | 208/230V;<br>1Ph;60HZ           |
| OUTDOOR FAN 1#<br>SPECIFICATIONS   | Material         | -           | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF |
|                                    | Type             | -           | ZL-535*133*12-3KFN              | ZL-560*139*12-3KN               | ZL-560*139*12-3KN               | ZL-560*139*12-3KN               | ZL-554*148*12-3KFN              | ZL-554*148*12-3KFN              |
|                                    | Diameter         | inch        | 21.1                            | 22.0                            | 22.0                            | 22.0                            | 21.8                            | 21.8                            |
|                                    |                  | mm          | 535                             | 560                             | 560                             | 560                             | 554                             | 554                             |
|                                    | Height           | inch        | 5.2                             | 5.5                             | 5.5                             | 5.5                             | 5.8                             | 5.8                             |
|                                    |                  | mm          | 133                             | 139                             | 139                             | 139                             | 148                             | 148                             |
| OUTDOOR FAN 2#<br>SPECIFICATIONS   | Material         | -           | N/A                             | N/A                             | N/A                             | N/A                             | Acrylonitrile<br>Styrene +20%GF | Acrylonitrile<br>Styrene +20%GF |
|                                    | Type             | -           | N/A                             | N/A                             | N/A                             | N/A                             | ZL-554*148*12-3KFN              | ZL-554*148*12-3KFN              |
|                                    | Diameter         | inch        | N/A                             | N/A                             | N/A                             | N/A                             | 21.8                            | 21.8                            |
|                                    |                  | mm          | N/A                             | N/A                             | N/A                             | N/A                             | 554                             | 554                             |
|                                    | Height           | inch        | N/A                             | N/A                             | N/A                             | N/A                             | 5.8                             | 5.8                             |
|                                    |                  | mm          | N/A                             | N/A                             | N/A                             | N/A                             | 148                             | 148                             |
| OUTDOOR MOTOR 1#<br>SPECIFICATIONS | Model            | -           | ZKFN-80-10-1L                   | ZKFN-120-8-9                    | ZKFN-120-8-9                    | ZKFN-120-8-9                    | ZKFN-85-10-1L                   | ZKFN-85-10-1L                   |
|                                    | Type             | -           | DC                              | DC                              | DC                              | DC                              | DC                              | DC                              |
|                                    | Input            | W           | 78.6                            | 80.0                            | 107.0                           | 107.0                           | 92                              | 92                              |
|                                    | Max. input       | W           | 239.0                           | 176                             | 176                             | 176                             | 167                             | 167                             |
|                                    | Output           | W           | 59                              | 60                              | 80.3                            | 80.3                            | 69                              | 69                              |
|                                    | FLA              | A           | 1.0                             | 1.2                             | 1.3                             | 1.3                             | 2.5                             | 2.5                             |
|                                    | Rated HP         | HP          | 0.08                            | 0.08                            | 0.11                            | 0.11                            | 0.09                            | 0.09                            |
|                                    | Range of current | Amps        | 0.33~1.85                       | 0.79~1.67                       | 0.79~1.67                       | 0.79~1.67                       | 0.77~1.44                       | 0.77~1.44                       |
|                                    | Rated current    | Amps        | 0.71                            | 1.03                            | 1.21                            | 1.21                            | 1.00                            | 1.00                            |
|                                    | Speed            | rev/mi<br>n | 750/600/500                     | 800/700/650                     | 900/750/600                     | 900/750/600                     | 800/700/650                     | 800/700/650                     |
|                                    | Rated RPM        | rev/mi<br>n | 750                             | 800                             | 900                             | 900                             | 800                             | 800                             |
|                                    | Insulation class | -           | B                               | B                               | B                               | B                               | B                               | B                               |
|                                    | Safe class       | -           | IP24                            | IPX4                            | IPX4                            | IPX4                            | IP44                            | IP44                            |

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

Table 42: Fan and Motor Specifications (Continued)

| Outdoor model                      |                  |         | D5CMRAH18CAK | D5CMRAH24DAK | D5CMRAH30EAK | D5CMRAH36EAK | D5CMRAH48FAK  | D5CMRAH55FAK  |
|------------------------------------|------------------|---------|--------------|--------------|--------------|--------------|---------------|---------------|
| OUTDOOR MOTOR 2#<br>SPECIFICATIONS | Model            | -       | N/A          | N/A          | N/A          | N/A          | ZKFN-85-10-1L | ZKFN-85-10-1L |
|                                    | Type             | -       | N/A          | N/A          | N/A          | N/A          | DC            | DC            |
|                                    | Input            | W       | N/A          | N/A          | N/A          | N/A          | 92            | 92            |
|                                    | Max. input       | W       | N/A          | N/A          | N/A          | N/A          | 167           | 167           |
|                                    | Output           | W       | N/A          | N/A          | N/A          | N/A          | 69            | 69            |
|                                    | FLA              | A       | N/A          | N/A          | N/A          | N/A          | 2.5           | 2.5           |
|                                    | Rated HP         | HP      | N/A          | N/A          | N/A          | N/A          | 0.09          | 0.09          |
|                                    | Range of current | Amps    | N/A          | N/A          | N/A          | N/A          | 0.77~1.44     | 0.77~1.44     |
|                                    | Rated current    | Amps    | N/A          | N/A          | N/A          | N/A          | 1.00          | 1.00          |
|                                    | Speed            | rev/min | N/A          | N/A          | N/A          | N/A          | 800/700/650   | 800/700/650   |
|                                    | Rated RPM        | rev/min | N/A          | N/A          | N/A          | N/A          | 800           | 800           |
|                                    | Insulation class | -       | N/A          | N/A          | N/A          | N/A          | B             | B             |
|                                    | Safe class       | -       | N/A          | N/A          | N/A          | N/A          | IP44          | IP44          |

ELECTRICAL DATA

| ELECTRICAL DATA                                |     |              |            |            |            |            |            |
|------------------------------------------------|-----|--------------|------------|------------|------------|------------|------------|
| OUTDOOR UNIT                                   |     | 18K          | 24K        | 30K        | 36K        | 48K        | 55K        |
|                                                |     | (208/230V)   | (208/230V) | (208/230V) | (208/230V) | (208/230V) | (208/230V) |
| Minimum Circuit Ampacity (MCA)                 | A   | 16           | 23         | 30.5       | 30.5       | 40         | 40         |
| Maximum Overcurrent Protection Ampacity (MOPA) | A   | 20           | 25         | 35         | 35         | 45         | 45         |
| Voltage-Phase-Frequency                        | -   | 208/230-1-60 |            |            |            |            |            |
| Max – Min Voltage Range                        | -   | 253-187      |            |            |            |            |            |
| COOLING (WITH 45MAHA)                          |     |              |            |            |            |            |            |
| RLA                                            | (A) | 6.0          | 8.0        | 10.3       | 13.5       | 16.6       | 26.2       |
| Power consumption                              | (W) | 1285         | 1778       | 2310       | 3000       | 3764       | 6000       |
| HEATING (WITH 45MAHA)                          |     |              |            |            |            |            |            |
| RLA                                            | (A) | 6.8          | 8.0        | 10.6       | 14.0       | 16.3       | 21.0       |
| Power consumption                              | (W) | 1465         | 1832       | 2330       | 3098       | 3702       | 4753       |

\*Permissible limits of the voltage range at which the unit operates satisfactorily.

LEGEND  
FLA - Full Load Amps  
MCA - Minimum Circuit Amps

MOCP - Maximum Over Current Protection  
RLA - Rated Load Amps

# REFRIGERANT CYCLE DIAGRAMS

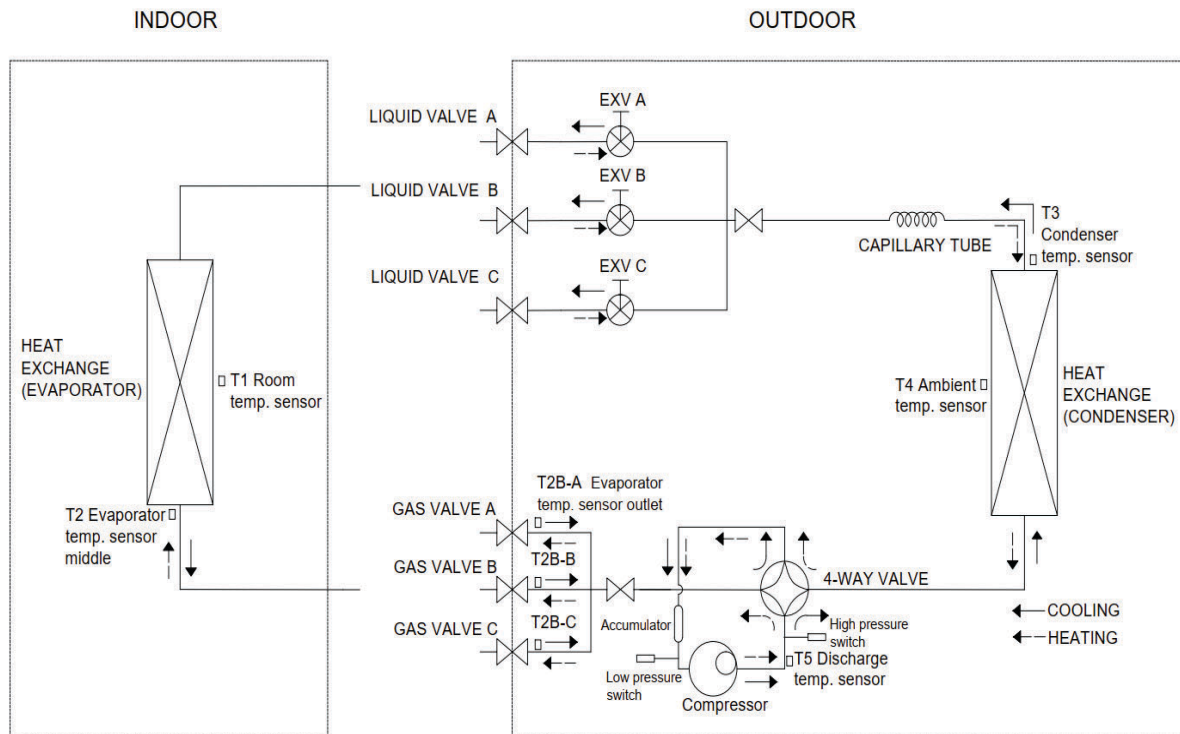


**Fig. 9 — 18K**

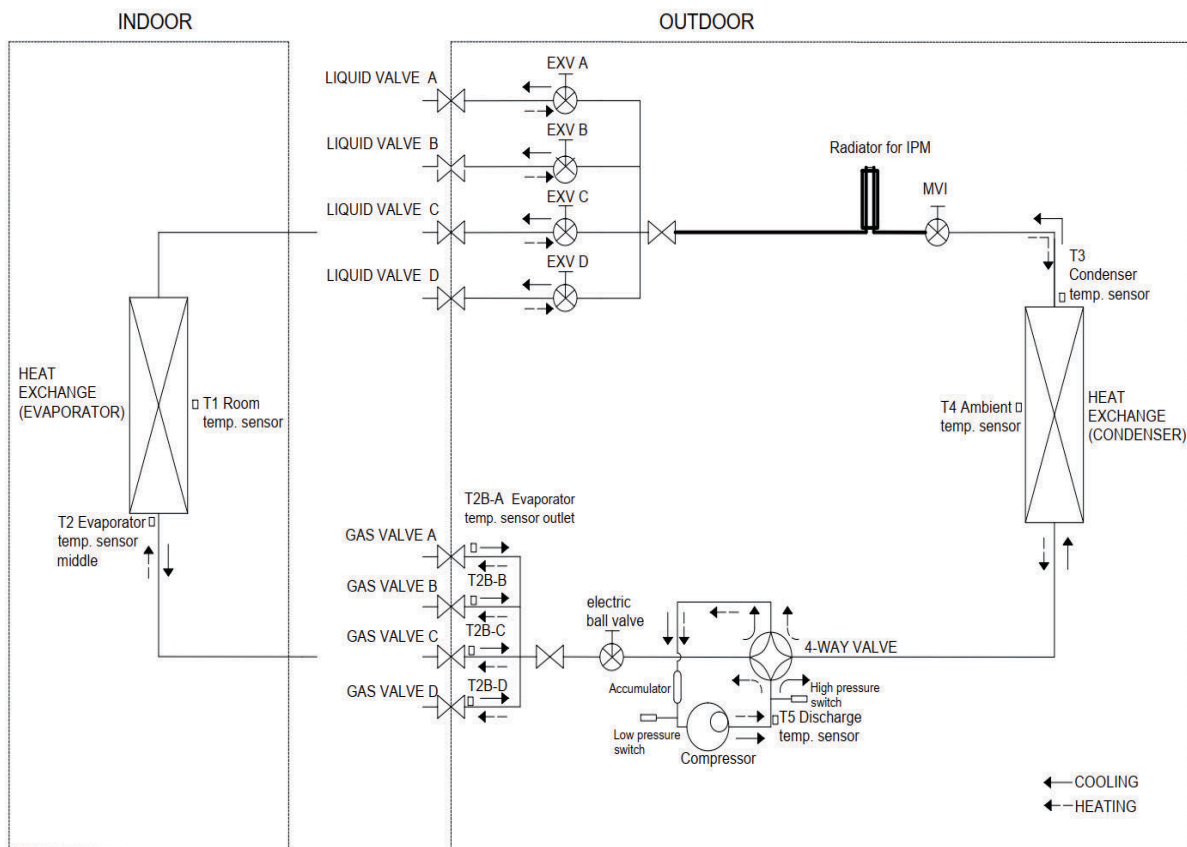


**Fig. 10 — 24K**

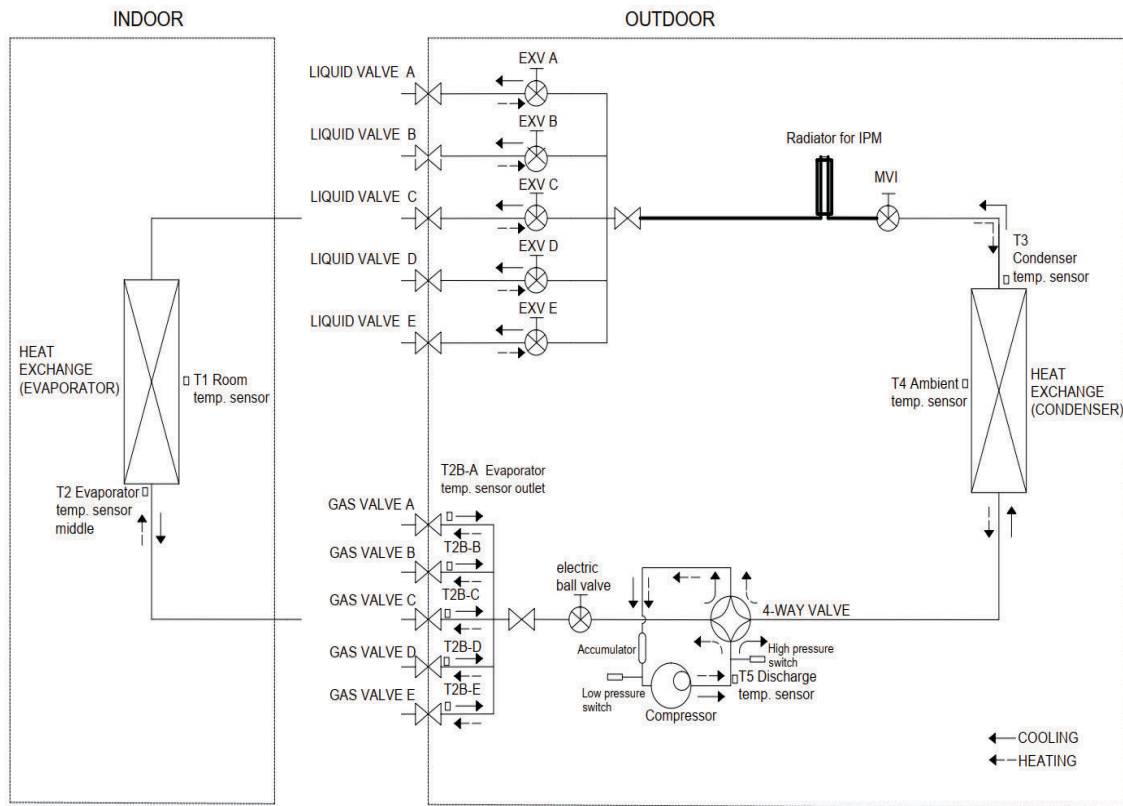


Fig. 11 — 30K, 36K

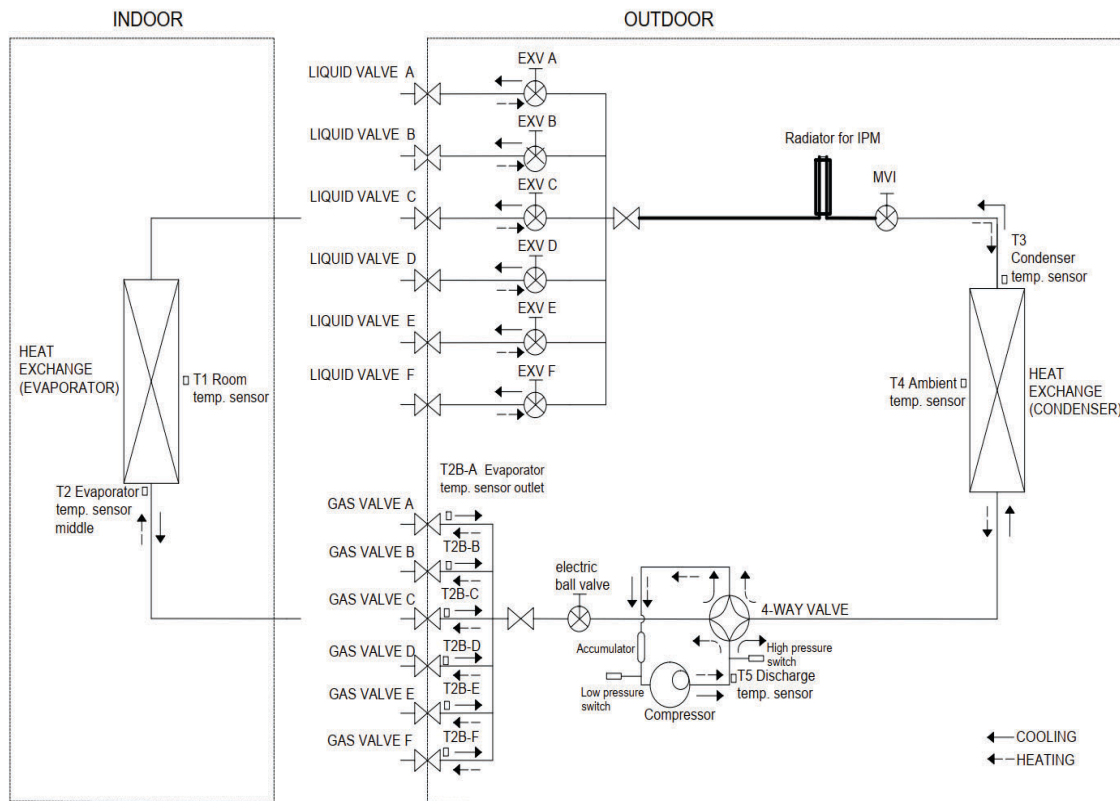


Fig. 12 — 48K, 55K

WIRING DIAGRAMS

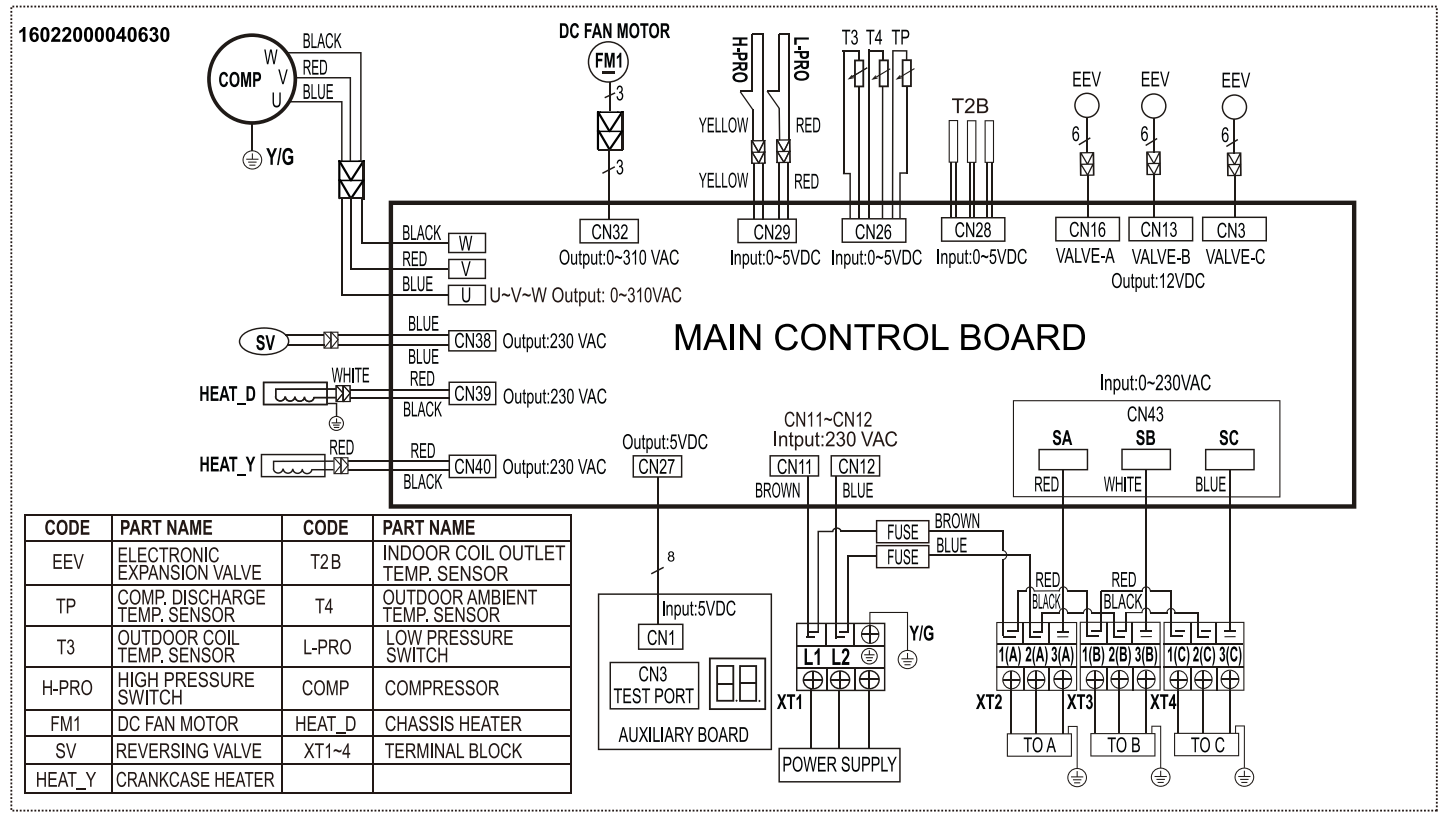


Fig. 13 — Wiring Diagram 18K

| CODE     | PART NAME                             |
|----------|---------------------------------------|
| COMP     | Compressor                            |
| EEV      | Electric Expansion Valve              |
| FM1      | DC Fan Motor                          |
| HEAT_D   | Chassis Heater                        |
| HEAT_Y   | Crankcase Heater                      |
| H-PRO    | High Pressure Switch                  |
| L-PRO    | Low Pressure Switch                   |
| SV       | Reversing Valve                       |
| TP       | Comp. Discharge Temperature Sensor    |
| T3       | Outdoor Coil Temperature Sensor       |
| T4       | Outdoor Ambient Temperature Sensor    |
| COMP TOP | Compressor TOP OLP Temperature Sensor |



| CODE    | OUTDOOR UNIT IPM DRIVE BOARD                        |
|---------|-----------------------------------------------------|
| CN4~CN5 | Input: 230VAC High voltage - from main board        |
| CN2~CN3 | Output: Connection of the REACTOR                   |
| U~V~W   | Connect to compressor voltage among phases 0~200VAC |
| CN14    | Connect to the DC FAN                               |
| CN1     | Connect to the MAIN BOARD                           |

WIRING DIAGRAMS (CONT)

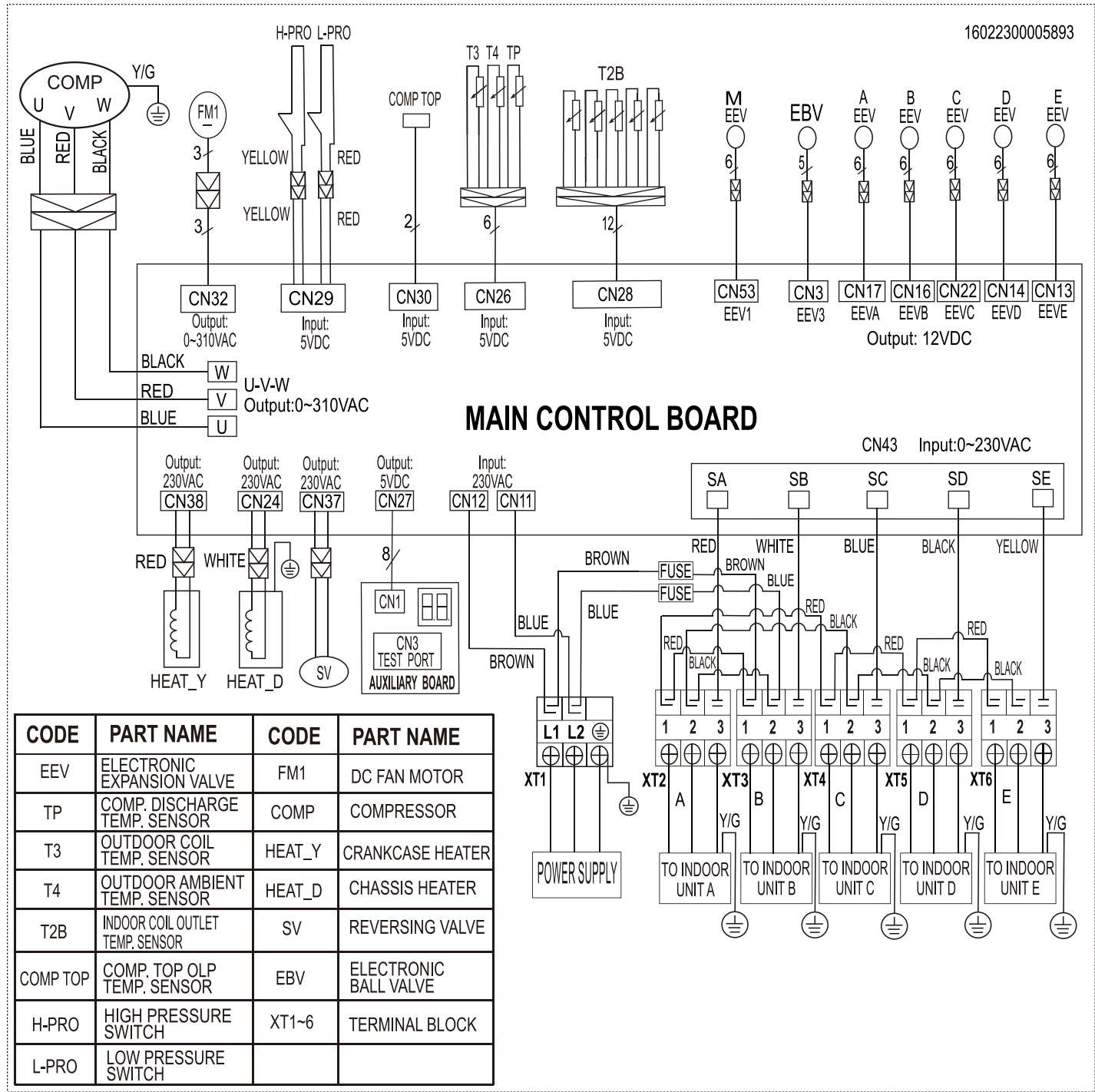


Fig. 15 — Wiring Diagram 30K/36K

# WIRING DIAGRAMS (CONT)

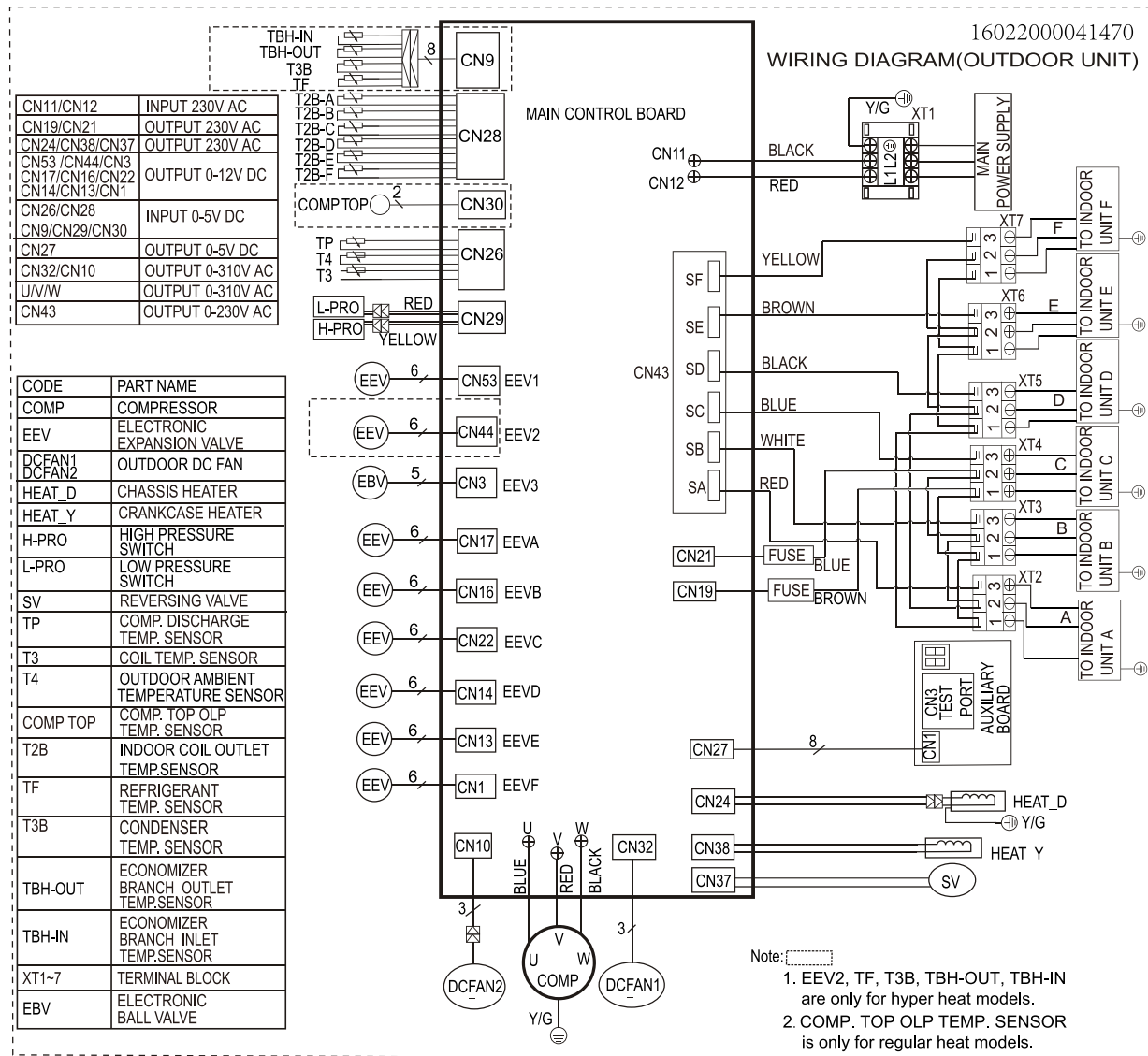


**Fig. 16 — Wiring Diagram 48K/55K**

| CODE                          | OUTDOOR UNIT MAIN BOARD SIZE 48R                                                                                     |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------|
| CN1~CN3                       | Input: 230VAC High voltage                                                                                           |
| CN13,CN16,CN21,CN29,CN37      | Output: Pin1 (Connection of the high voltage) "S" Pin2~Pin3 (230VAC High voltage) "L1 & L2"                          |
| P5,P6,P9                      | Connection to the earth                                                                                              |
| CN17~CN18                     | Output: 230VAC High voltage --- REVERSING VALVE                                                                      |
| CN24~CN25                     | Output: 230VAC High voltage --- CRANKCASE HEATER                                                                     |
| CN19~CN20                     | Output: 230VAC High voltage --- CHASSIS HEATER                                                                       |
| CN11                          | Input: Pin1, Pin3, Pin5, Pin7, Pin9 (5VDC) Pin2, Pin4, Pin6, Pin8, Pin10 (0-5VDC) indoor coil outlet sensor          |
| CN8                           | Input: Pin1 (0-5VDC), Pin2 (5VDC)                                                                                    |
| CN9                           | Input: Pin3, Pin4 (5VDC), Pin2 (0VDC), Pin1, Pin5 (0-5VDC)                                                           |
| CN15,CN23,CN26,CN30,CN33,CN38 | Output: Pin1-Pin4: Pulse waveform (0-12VDC), Pin5, Pin6 (12VDC) to EEV                                               |
| CN6                           | Communication: Pin1-Pin6: Pulse waveform (0-5VDC), Pin7, Pin9 (0VDC) Pin8 (0-5VDC), Pin10 (5VDC)--to IPM & PFC board |
| CN2~CN4                       | Output: 230VAC High voltage to IPM & PFC Board                                                                       |
| CN10                          | Input: Pin2, Pin4 (0VDC), Pin1, Pin3 (0-5VDC)--H/L Pressure switch                                                   |
| CN14                          | Input:Pin1(5VDC),Pin2(0-4VDC)--COMP.TOP OLP TEMP.SENSOR                                                              |

# GUIDE SPECIFICATIONS

## MULTI-ZONE HEAT PUMP HORIZONTAL DISCHARGE OUTDOOR DUCTLESS SYSTEM

Size Range: 1-1/2, 2, 2-1/2, 3, 4 and 5 Ton Nominal Cooling  
and Heating Capacity  
Model Number: **D5CMRA**

### Part 1 - General

#### 1.01 System Description

- a. Outdoor air-cooled split system compressor sections suitable for on-the-ground, rooftop, wall hung or balcony mounting. Units consist of a variable speed rotary compressor, an air-cooled coil, propeller-type draw-through outdoor fan, reversing valve, accumulator, electronic expansion valves, multiple service valves, and controls that allow multiple indoor units to be connected to the outdoor unit. Units discharge horizontally as shown on the contract drawings. Units function as the outdoor component of an air-to-air heat pump system.
- b. Units are designed for use in a refrigeration circuit matched to two, three, four, or five multi style heat pump fan coil units.

#### 1.02 Agency Listings

- a. Unit construction complies with ANSI/ASHRAE 15, latest revision, and with the NEC.
- b. Units are evaluated in accordance with the UL standard 1995.
- c. Units are listed in CEC directory.
- d. Unit cabinet is capable of withstanding the 500-hour salt spray test per Federal Test Standard no. 141 (method 6061).
- e. Air-cooled condenser coils are leak tested at 550 psig.

#### 1.03 Delivery, Storage, And Handling

Units are shipped in one piece and are stored and handled per the manufacturer's recommendations.

#### 1.04 Warranty (For Inclusion By Specifying Engineer)

### Part 2 - Products

#### 2.01 Equipment

##### **1. General:**

Factory assembled, single piece, air-cooled outdoor unit. Contained within the enclosure are the factory wiring, piping, controls, and the compressor.

##### **2. Unit Cabinet:**

- a. The unit cabinet is constructed of galvanized steel, bonderized and coated with baked-enamel finish on the inside and outside.
- b. The unit access panel is removable and provides full access to the compressor, fan, and the control components.
- c. The outdoor compartment is isolated and has an acoustic lining to assure a quiet operation.

##### **3. Fans:**

- a. The outdoor fans are direct-drive propeller type, and discharge air horizontally. The fan draws air through the outdoor coil.
- b. Outdoor fan motors are multi-speed, totally-enclosed, single phase motors with permanently lubricated ball bearings. The motor is protected by internal thermal overload protection.
- c. The shaft has an inherent corrosion resistance.
- d. Outdoor fan openings are equipped with a metal/mesh PVC coated protection grille over the fan.

##### **4. Compressor:**

- a. The compressor is the fully hermetic variable speed rotary type.
- b. The compressor is inverter driven.
- c. The compressor is equipped with an oil system, operating oil charge, and motor.
- d. The motor is suitable for operation in a refrigerant and oil atmosphere.
- e. The compressor assembly is installed on rubber vibration isolators.
- f. The inverter and compressor are protected against over temperature and over current.

##### **5. Outdoor Coil:**

The coil is constructed of aluminum golden hydrophilic pre-coated fins mechanically bonded to seamless copper tubes, which are cleaned, dehydrated and sealed.

##### **6. Refrigerant Components:**

Refrigerant circuit components include multiple brass external liquid line service valves with a service gauge connection port, multiple suction line service valves with a service gauge connection port, accumulator, reversing valve, and electronic expansion valves.

##### **7. Safety:**

Operating safeties are factory selected, assembled, and tested. The minimum functions include the following:

- a. Compressor discharge over temperature protection.
- b. System low voltage protection.
- c. Compressor overload protection.
- d. Compressor over current protection.
- e. IPM module protection.
- f. Emergency shut-off valves for refrigerant leak mitigation.

##### **8. Electrical Requirements:**

- a. Units operate on single-phase, 60 Hz power at 208/230v.
- b. The unit electrical power is a single point connection.
- c. All power and control wiring must be installed per NEC and all local electrical codes.
- d. Units have multiple terminal blocks to connect to multiple indoor units.

NOTES: