

**24VNA9 Infinity® 19VS  
Variable Speed Air Conditioner  
with Puron® Refrigerant  
1 – 5 Tons**



## Product Data



**INFINITY® 19VS**

The Infinity 19VS air conditioner offers high-efficiency variable speed performance in a remarkably small cabinet and provides up to 19 SEER cooling efficiency. The variable speed inverter capacity control delivers up to 5 stages of operation for exceptional load matching, dehumidification and zoning performance.

This product has been designed and manufactured to provide flexible system matching and work with a wide variety of indoor units and controls.

**NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory ([www.ahridirectory.org](http://www.ahridirectory.org)) for the most up-to-date ratings information.**

### INDUSTRY LEADING FEATURES / BENEFITS

#### Energy Efficiency

- Up to 19 SEER / 13 EER
- Microtube Technology™ refrigeration system

#### Sound

- Sound level as low as 55 dBA in low speed (Silencer System II).
- Soft start and smooth ramp to operating speeds

#### Comfort

- Variable speed compressor operates at 5 stages with capacity range from as wide as 25-100%
- Air cooled Inverter variable speed drive
  - System requires Infinity Touch Control with version 11 software or newer for 5 stage operation on sizes 24 - 60 and version 12 or higher on size 13.
  - Ratings provided with 2-stage thermostats and suitable non-communicating indoor products for 2-stage operation.

#### Reliability

- Puron® refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Front-seating service valves
- Inverter control drives compressor and fan motor
- No control module attached to fan motor
- Infinity intelligence monitors critical system parameters
- Pressure equalizer valve for easy compressor starting
- High pressure switch
- Suction pressure transducer
- Compressor discharge temperature sensor
- Suction temperature sensor
- Filter drier (field installed)
- Internal crankcase heater standard

#### Flexibility and installation:

- 2 control wires to outdoor unit in complete Infinity system and Touch Control
- Energy Tracking capability with the Infinity Touch Control (Energy Tracking has the ability to monitor and estimate the energy consumption of your Infinity system.)
- Smaller and lighter than 2-stage units
- Minimum and Maximum adjustments with Infinity Touch Control
- Compatible with non-communicating thermostats

#### Durability

WeatherArmor Ultra™ protection package:

- Solid, Durable sheet metal construction
- Steel louver coil guard
- Baked-on, complete outer coverage, powder paint

#### Applications

- Line sets up to 100 ft (30.5 m) equivalent length
- No long-line accessories required.

## MODEL NUMBER NOMENCLATURE

|                |                |                     |              |             |                      |                                      |                 |                 |               |              |         |         |
|----------------|----------------|---------------------|--------------|-------------|----------------------|--------------------------------------|-----------------|-----------------|---------------|--------------|---------|---------|
| 1<br>N         | 2<br>N         | 3<br>A              | 4<br>A       | 5<br>A/N    | 6<br>N               | 7<br>N                               | 8<br>N          | 9<br>A/N        | 10<br>A/N     | 11<br>A/N    | 12<br>N | 13<br>N |
| 2              | 4              | V                   | N            | A           | 9                    | 3                                    | 6               | A               | 0             | 0            | 3       | 0       |
| Product Series | Product Family | Tier                | Major Series | SEER        | Cooling Capacity     | Variations                           | Open            | Open            | Voltage       | Minor Series |         |         |
| 24 = AC        | V = VS HP      | N = Infinity Series | A = Puron    | 9 = 19 SEER | 1,000 Btuh (nominal) | A = Standard<br>B = Design Variation | 0 = Not Defined | 0 = Not Defined | 3 = 208/230-1 | 0, 1, 2...   |         |         |



## STANDARD FEATURES

| FEATURES                                                                                                                                                        | Unit Size – Voltage, Series |            |    |    |    |    |    |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------------|----|----|----|----|----|----|
|                                                                                                                                                                 | 13                          | 24A<br>24B | 25 | 36 | 37 | 48 | 49 | 60 |
| Puron Refrigerant                                                                                                                                               | X                           | X          | X  | X  | X  | X  | X  | X  |
| Variable Speed Rotary Compressor                                                                                                                                | X                           | X          | X  | X  | X  | X  | X  | X  |
| Air – Cooled Integrated Inverter Drive                                                                                                                          | X                           | X          | X  | X  | X  | X  | X  | X  |
| Louvered Coil Guard                                                                                                                                             | X                           | X          | X  | X  | X  | X  | X  | X  |
| Field Installed Filter Drier                                                                                                                                    | X                           | X          | X  | X  | X  | X  | X  | X  |
| Front Seating Service Valves                                                                                                                                    | X                           | X          | X  | X  | X  | X  | X  | X  |
| Internal Pressure and Temperature Protection                                                                                                                    | X                           | X          | X  | X  | X  | X  | X  | X  |
| Suction Pressure Transducer                                                                                                                                     | X                           | X          | X  | X  | X  | X  | X  | X  |
| High Pressure Switch                                                                                                                                            | X                           | X          | X  | X  | X  | X  | X  | X  |
| Internal Crankcase Heater                                                                                                                                       | X                           | X          | X  | X  | X  | X  | X  | X  |
| Enhanced Diagnostics with Infinity Touch™ Control<br>(version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.) | X                           | X          | X  | X  | X  | X  | X  | X  |
| Deluxe Sound Blanket                                                                                                                                            | X                           | X          | X  | X  | X  | X  | X  | X  |
| Outdoor Air Temperature Sensor                                                                                                                                  | X                           | X          | X  | X  | X  | X  | X  | X  |

X = Standard

## PHYSICAL DATA

| UNIT SIZE SERIES           | 13–30                                      | 24A–30     | 24B–30      | 25–30      | 36–30      | 37–30      | 48–30      | 49–30      | 60–30       |
|----------------------------|--------------------------------------------|------------|-------------|------------|------------|------------|------------|------------|-------------|
| Compressor Type            | Variable Speed Rotary                      |            |             |            |            |            |            |            |             |
| REFRIGERANT                | Puron® (R-410A)                            |            |             |            |            |            |            |            |             |
| Control                    | TXV (Puron® Hard Shutoff)                  |            |             |            |            |            |            |            |             |
| Charge lb (kg)             | 4.6 (2.09)                                 | 5.5 (2.50) | 4.80 (2.18) | 5.5 (2.50) | 6.0 (2.72) | 7.5 (3.40) | 7.5 (3.40) | 9.6 (4.35) | 8.30 (3.76) |
| COND FAN                   | Forward Swept Propeller Type, Direct Drive |            |             |            |            |            |            |            |             |
| Air Discharge              | Vertical                                   |            |             |            |            |            |            |            |             |
| Air Qty (CFM)              | 1600                                       | 2500       | 2500        | 2500       | 2500       | 4500       | 4500       | 4800       | 4500        |
| Motor HP                   | 1/5                                        | 1/3        | 1/5         | 1/3        | 1/3        | 1/3        | 1/3        | 1/3        | 1/3         |
| Motor RPM                  | 650                                        | 1050       | 825         | 1050       | 1050       | 850        | 850        | 850        | 900         |
| COND COIL                  |                                            |            |             |            |            |            |            |            |             |
| Face Area (Sq ft)          | 11.12                                      | 13.90      | 11.12       | 13.90      | 13.90      | 21.50      | 21.50      | 27.53      | 23.65       |
| Fins per In.               | 20                                         | 20         | 20          | 20         | 20         | 20         | 20         | 25         | 20          |
| Rows                       | 1                                          | 1          | 1           | 1          | 1          | 1          | 1          | 1          | 1           |
| Circuits                   | 6                                          | 6          | 5           | 6          | 6          | 8          | 8          | 8          | 8           |
| VALVE CONNECT. (In. ID)    |                                            |            |             |            |            |            |            |            |             |
| Vapor                      | 5/8                                        | 3/4        | 5/8         | 3/4        | 3/4        | 7/8        | 7/8        | 7/8        | 7/8         |
| Liquid                     | 3/8                                        |            |             |            |            |            |            |            |             |
| REFRIGERANT TUBES (In. OD) |                                            |            |             |            |            |            |            |            |             |
| Rated Vapor*               | 3/4                                        | 7/8        | 3/4         | 7/8        | 7/8        | 1–1/8      | 1–1/8      | 1–1/8      | 1–1/8       |
| Max Liquid Line            | 3/8                                        |            |             |            |            |            |            |            |             |

\* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

**Note:** See unit Installation Instruction for proper installation.

# REFRIGERANT PIPING LENGTH LIMITATIONS

## Maximum Line Lengths:

The maximum allowable total equivalent length for air conditioners can vary depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

### Maximum Line Lengths for Air Conditioner Applications

|                                   | MAXIMUM ACTUAL LENGTH<br>ft (m)                                             | MAXIMUM EQUIVALENT LENGTH†<br>ft (m) | MAXIMUM VERTICAL SEPARA-<br>TION ft (m) |
|-----------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|
| Units on equal level              | 100 (30.5)                                                                  | 100 (30.5)                           | N/A                                     |
| Outdoor unit ABOVE<br>indoor unit | 100 (30.5)                                                                  | 100 (30.5)                           | 100 (30.5)                              |
| Outdoor unit BELOW<br>indoor unit | See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit' |                                      |                                         |

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

### Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

| Size  | Liquid Line<br>Diameter<br>w/ TXV | AC with Puron® Refrigerant – Maximum Total Equivalent Length†<br>Vertical Separation ft (m) Outdoor unit BELOW indoor unit; |                      |                       |                        |                        |                        |                        |
|-------|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
|       |                                   | 0–20<br>(0 – 6.1)                                                                                                           | 21–30<br>(6.4 – 9.1) | 31–40<br>(9.4 – 12.2) | 41–50<br>(12.5 – 15.2) | 51–60<br>(15.5 – 18.3) | 61–70<br>(18.6 – 21.3) | 71–80<br>(21.6 – 24.4) |
| 1–Ton | 3/8                               | 100*                                                                                                                        | 100*                 | 100*                  | 100*                   | 100*                   | 100*                   | 100*                   |
| 2–Ton | 3/8                               | 100*                                                                                                                        | 100*                 | 100*                  | 100*                   | 100*                   | 100*                   | 100*                   |
| 3–Ton | 3/8                               | 100*                                                                                                                        | 100*                 | 100*                  | 100*                   | 100*                   | 100*                   | 100*                   |
| 4–Ton | 3/8                               | 100*                                                                                                                        | 100*                 | 100*                  | 100*                   | 100                    | 100                    | --                     |
| 5–Ton | 3/8                               | 100*                                                                                                                        | 100*                 | 100*                  | 100*                   | 100                    | 100                    | --                     |

\* Maximum actual length not to exceed 100 ft (30.5 m)

† Total equivalent length accounts for losses due to elbows or fitting.

-- = outside acceptable range

## LONG LINE APPLICATIONS

Unit is approved for up to 100 ft (30.5 m) equivalent length and vertical separations shown above with no additional accessories. Longer line set applications are not permitted.

## COOLING CAPACITY LOSS TABLE

| Nominal<br>Size<br>(Btuh) | Line OD (in.) | 24VNA9 Cooling Capacity Loss (%)  |            |            |            |            |
|---------------------------|---------------|-----------------------------------|------------|------------|------------|------------|
|                           |               | Total Equivalent Line Length (ft) |            |            |            |            |
|                           |               | 25                                | 50         | 75         | 80         | 100        |
| 13                        | 5/8           | 0.5                               | 1.2        | 1.8        | 1.9        | 2.4        |
|                           | <b>3/4</b>    | <b>0.1</b>                        | <b>0.4</b> | <b>0.6</b> | <b>0.7</b> | <b>0.8</b> |
| 24B                       | 5/8           | 0.5                               | 1.2        | 1.8        | 1.9        | 2.4        |
|                           | <b>3/4</b>    | <b>0.1</b>                        | <b>0.4</b> | <b>0.6</b> | <b>0.7</b> | <b>0.8</b> |
| 24A<br>25                 | 5/8           | 0.5                               | 1.2        | 1.8        | 1.9        | 2.4        |
|                           | 3/4           | 0.1                               | 0.4        | 0.6        | 0.7        | 0.8        |
|                           | <b>7/8</b>    | 0.0                               | 0.1        | 0.3        | 0.3        | 0.4        |
| 36<br>37                  | 5/8           | 1.1                               | 2.4        | 3.7        | 4.0        | 5.0        |
|                           | 3/4           | 0.3                               | 0.8        | 1.3        | 1.4        | 1.8        |
|                           | <b>7/8</b>    | 0.0                               | 0.3        | 0.5        | 0.6        | 0.8        |
| 48<br>49                  | 3/4           | 0.7                               | 1.6        | 2.4        | 2.6        | 3.2        |
|                           | <b>7/8</b>    | 0.3                               | 0.7        | 1.1        | 1.2        | 1.6        |
|                           | <b>1 1/8</b>  | 0.0                               | 0.1        | 0.2        | 0.3        | 0.4        |
| 60                        | 3/4           | 1.0                               | 2.3        | 3.5        | 3.8        | 4.8        |
|                           | <b>7/8</b>    | 0.4                               | 1.0        | 1.7        | 1.8        | 2.3        |
|                           | <b>1 1/8</b>  | 0.0                               | 0.1        | 0.3        | 0.4        | 0.5        |

Rating Line Size in **BOLD**

## MIN/MAX AIRFLOW TABLES

The indoor airflow delivered by this system varies significantly based on outdoor temperature, indoor unit combination, and system demand. The airflows on these tables are for duct design considerations. Duct systems capable of these ranges will ensure

the system will deliver full capacity at all outdoor temperatures. Minimum and maximum airflows can be adjusted from these numbers in the Infinity Control Setup screen.

| Cooling – Comfort Mode |                     |                     | Minimum Cooling<br>(Dehum or Zoning) |
|------------------------|---------------------|---------------------|--------------------------------------|
| Size                   | Max Stage 5 Airflow | Max Stage 1 Airflow |                                      |
| 1 – Ton                | 420                 | 300                 | 300                                  |
| 2 – Ton                | 739                 | 263                 | 222                                  |
| 3 – Ton                | 990                 | 289                 | 236                                  |
| 4 – Ton                | 1389                | 542                 | 457                                  |
| 5 – Ton                | 1600                | 700                 | 600                                  |

| Cooling – Efficiency Mode |                     |                     |
|---------------------------|---------------------|---------------------|
| Size                      | Max Stage 5 Airflow | Max Stage 1 Airflow |
| 1 – Ton                   | 420                 | 300                 |
| 2 – Ton                   | 825                 | 585                 |
| 3 – Ton                   | 1050                | 600                 |
| 4 – Ton                   | 1400                | 875                 |
| 5 – Ton                   | 1800                | 975                 |

| Cooling Max Mode                       |                     |                     |
|----------------------------------------|---------------------|---------------------|
| Size                                   | Max Stage 5 Airflow | Max Stage 1 Airflow |
| 1 – Ton (550 cfm/ delivered ton)       | 780                 | 434                 |
| 2 – Ton (24)                           | 850                 | 585                 |
| 2 – Ton (25) (550 cfm/ delivered ton)* | 1350                | 510                 |
| 3 – Ton                                | 1200                | 600                 |
| 4 – Ton                                | 1600                | 875                 |
| 4 – Ton – 49                           | 1450                | 875                 |
| 5 – Ton                                | 2000                | 975                 |

\* Serial number beginning with 0115E and newer

### LEGEND::

**Max Capacity Airflow** – Stage 5 airflow varies depending on conditions. This is the highest airflow the system will attempt to deliver in this particular mode. Ductwork for non-zoned systems should be sized for this airflow to ensure the system can deliver full capacity when needed. Improper duct design may result in excessive airflow noise and/or cutback occurrences at max airflow conditions.

**Highest Min. Capacity Airflow** – Stage 1 airflow also varies depending on conditions. In zoned systems, each zone must be capable of delivering this airflow for the system to deliver full capacity into the zone. Otherwise, airflow may be diverted to other zones or cutback may occur.

**Min Cooling (Dehum or Zoning)** – Lowest airflow the system will deliver. May operate down to this airflow in dehumidification mode or in zoning applications where ductwork restrictions have caused the blower to cut-back.

## ELECTRICAL DATA

| UNIT<br>SIZE –<br>VOLTAGE,<br>SERIES | V/PH          | OPER VOLTS* |     | COMPR |      | FAN  | MCA  | MAX<br>FUSE **<br>or<br>CKT<br>BRK<br>AMPS |
|--------------------------------------|---------------|-------------|-----|-------|------|------|------|--------------------------------------------|
|                                      |               | MAX         | MIN | LRA   | RLA  | FLA  |      |                                            |
| 13 – 30                              | 208 – 230 – 1 | 253         | 197 | N/A   | 10.3 | 0.58 | 13.5 | 20                                         |
| 24A – 30                             |               |             |     | N/A   | 17.7 | 1.20 | 23.6 | 40                                         |
| 24B – 30                             |               |             |     | N/A   | 10.3 | 0.58 | 13.5 | 20                                         |
| 25 – 30                              |               |             |     | N/A   | 17.7 | 1.20 | 23.6 | 40                                         |
| 36 – 30                              |               |             |     | N/A   | 18.4 | 1.20 | 24.2 | 40                                         |
| 37 – 30                              |               |             |     | N/A   | 19.6 | 1.20 | 26.0 | 40                                         |
| 48 – 30                              |               |             |     | N/A   | 20.9 | 1.20 | 27.3 | 40                                         |
| 49 – 30                              |               |             |     | N/A   | 19.6 | 1.40 | 26.0 | 40                                         |
| 60 – 30                              |               |             |     | N/A   | 30.9 | 1.40 | 40.0 | 60                                         |

\* Permissible limits of the voltage range at which the unit will operate satisfactorily

\*\* Time – Delay fuse.

FLA – Full Load Amps

LRA – Locked Rotor Amps

MCA – Minimum Circuit Amps

RLA – Rated Load Amps

NOTE: Control circuit is 24 – V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE – VOLTAGE, SERIES | If a Touch Control is installed, subcooling recommendation displayed in Charging Mode must be followed. If not, subcooling chart shown on the charging label must be followed |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13 – 30                     |                                                                                                                                                                               |
| 24A – 30, 24B – 30          |                                                                                                                                                                               |
| 25 – 30                     |                                                                                                                                                                               |
| 36 – 30                     |                                                                                                                                                                               |
| 37 – 30                     |                                                                                                                                                                               |
| 48 – 30                     |                                                                                                                                                                               |
| 49 – 30                     |                                                                                                                                                                               |
| 60 – 30                     |                                                                                                                                                                               |
|                             |                                                                                                                                                                               |

# RPM-CAPACITY-SOUND (dBA)\*

| STAGE #          | COMP RPM | CAPACITY % | SOUND (dBA) |
|------------------|----------|------------|-------------|
| <b>24VNA913</b>  |          |            |             |
| 1                | 1500     | 58%        | 58          |
| 2                | 1867     | 72%        | 59          |
| 3                | 2100     | 81%        | 59          |
| 4                | 2350     | 90%        | 59          |
| 5                | 2600     | 100%       | 60          |
| <b>24VNA924A</b> |          |            |             |
| 1                | 1200     | 36%        | 56          |
| 2                | 1900     | 58%        | 61          |
| 3                | 2400     | 73%        | 64          |
| 4                | 2600     | 79%        | 68          |
| 5                | 3300     | 100%       | 71          |
| <b>24VNA924B</b> |          |            |             |
| 1                | 1500     | 35%        | 55          |
| 2                | 2566     | 56%        | 60          |
| 3                | 3150     | 69%        | 65          |
| 4                | 3950     | 87%        | 66          |
| 5                | 4700     | 100%       | 68          |
| <b>24VNA925</b>  |          |            |             |
| 1                | 1200     | 36%        | 56          |
| 2                | 1900     | 58%        | 61          |
| 3                | 2400     | 73%        | 63          |
| 4                | 2600     | 79%        | 67          |
| 5                | 3300     | 100%       | 69          |
| <b>24VNA936</b>  |          |            |             |
| 1                | 1200     | 25%        | 56          |
| 2                | 2400     | 50%        | 61          |
| 3                | 3300     | 69%        | 65          |
| 4                | 4200     | 88%        | 69          |
| 5                | 4800     | 100%       | 71          |
| <b>24VNA937</b>  |          |            |             |
| 1                | 1200     | 40%        | 56          |
| 2                | 1800     | 60%        | 63          |
| 3                | 2200     | 73%        | 67          |
| 4                | 2600     | 87%        | 67          |
| 5                | 3000     | 100%       | 68          |
| <b>24VNA948</b>  |          |            |             |
| 1                | 1500     | 35%        | 62          |
| 2                | 2460     | 57%        | 65          |
| 3                | 2800     | 65%        | 67          |
| 4                | 3650     | 84%        | 70          |
| 5                | 4320     | 100%       | 72          |
| <b>24VNA949</b>  |          |            |             |
| 1                | 1200     | 38%        | 57          |
| 2                | 1840     | 59%        | 62          |
| 3                | 2300     | 74%        | 66          |
| 4                | 2700     | 87%        | 68          |
| 5                | 3120     | 100%       | 73          |
| <b>24VNA960</b>  |          |            |             |
| 1                | 1200     | 32%        | 57          |
| 2                | 2180     | 55%        | 61          |
| 3                | 2850     | 70%        | 64          |
| 4                | 3700     | 90%        | 70          |
| 5                | 4140     | 100%       | 72          |

\*Estimated sound for stages 2, 3, and 4  
For 2-stage operation: Low = Stage 2, High = Stage 5

# SOUND POWER LEVEL (dBA)

| Unit Size – Voltage, Series | Typical Octave Band Spectrum<br>(without tone adjustment) | Min Speed Cooling | Max Speed Cooling |
|-----------------------------|-----------------------------------------------------------|-------------------|-------------------|
| 13 – 30                     | Freq (Hz)                                                 | 1500              | 2600              |
|                             | 125                                                       | 46.5              | 46.5              |
|                             | 250                                                       | 50.5              | 54.0              |
|                             | 500                                                       | 52.0              | 53.5              |
|                             | 1000                                                      | 50.0              | 51.0              |
|                             | 2000                                                      | 47.0              | 47.5              |
|                             | 4000                                                      | 40.5              | 47.0              |
|                             | 8000                                                      | 45.5              | 45.0              |
|                             | Sound Rating (dBA)                                        | <b>58</b>         | <b>60</b>         |
| 24A – 30                    | Freq (Hz)                                                 | 1200 RPM          | 3300 RPM          |
|                             | 125                                                       | 40.4              | 43.9              |
|                             | 250                                                       | 44.4              | 53.9              |
|                             | 500                                                       | 46.3              | 61.8              |
|                             | 1000                                                      | 45.0              | 59.0              |
|                             | 2000                                                      | 37.2              | 56.7              |
|                             | 4000                                                      | 31.0              | 60.0              |
|                             | 8000                                                      | 28.4              | 45.4              |
|                             | Sound Rating (dBA)                                        | 56                | 71                |
| 24B – 30                    | Freq (Hz)                                                 | 1500 RPM          | 4700 RPM          |
|                             | 125                                                       | 40.5              | 44.0              |
|                             | 250                                                       | 45.5              | 49.5              |
|                             | 500                                                       | 41.5              | 53.0              |
|                             | 1000                                                      | 44.0              | 52.5              |
|                             | 2000                                                      | 39.0              | 50.5              |
|                             | 4000                                                      | 34.5              | 53.0              |
|                             | 8000                                                      | 31.0              | 45.0              |
|                             | Sound Rating (dBA)                                        | 55                | 67                |
| 25 – 30                     | Freq (Hz)                                                 | 1200 RPM          | 3300 RPM          |
|                             | 125                                                       | 40.4              | 45.4              |
|                             | 250                                                       | 44.4              | 57.9              |
|                             | 500                                                       | 46.3              | 61.3              |
|                             | 1000                                                      | 45.0              | 58.0              |
|                             | 2000                                                      | 37.2              | 54.7              |
|                             | 4000                                                      | 31.0              | 52.0              |
|                             | 8000                                                      | 28.4              | 41.9              |
|                             | Sound Rating (dBA)                                        | 56                | 69                |
| 36 – 30                     | Freq (Hz)                                                 | 1200 RPM          | 4800 RPM          |
|                             | 125                                                       | 40.4              | 43.9              |
|                             | 250                                                       | 44.4              | 53.9              |
|                             | 500                                                       | 46.3              | 61.8              |
|                             | 1000                                                      | 45.0              | 59.0              |
|                             | 2000                                                      | 37.2              | 56.7              |
|                             | 4000                                                      | 31.0              | 60.0              |
|                             | 8000                                                      | 28.4              | 45.4              |
|                             | Sound Rating (dBA)                                        | 56                | 71                |
| 37 – 30                     | Freq (Hz)                                                 | 1200              | 3000              |
|                             | 125                                                       | 45.0              | 54.5              |
|                             | 250                                                       | 48.5              | 59.0              |
|                             | 500                                                       | 50.5              | 63.0              |
|                             | 1000                                                      | 50.0              | 60.5              |
|                             | 2000                                                      | 44.0              | 59.5              |
|                             | 4000                                                      | 37.5              | 57.5              |
|                             | 8000                                                      | 44.5              | 52.0              |
|                             | Sound Rating (dBA)                                        | <b>56</b>         | <b>68</b>         |
| 48 – 30                     | Freq (Hz)                                                 | 1500 RPM          | 4320 RPM          |
|                             | 125                                                       | 40.9              | 42.4              |
|                             | 250                                                       | 46.4              | 54.4              |
|                             | 500                                                       | 47.3              | 60.3              |
|                             | 1000                                                      | 56.5              | 63.5              |
|                             | 2000                                                      | 39.2              | 56.7              |
|                             | 4000                                                      | 35.0              | 56.0              |
|                             | 8000                                                      | 31.9              | 44.9              |
|                             | Sound Rating (dBA)                                        | 62                | 72                |
| 49 – 30                     | Freq (Hz)                                                 | 1200              | 3120              |
|                             | 125                                                       | 44.5              | 52.0              |
|                             | 250                                                       | 48.5              | 63.0              |
|                             | 500                                                       | 50.5              | 63.5              |
|                             | 1000                                                      | 51.5              | 67.5              |
|                             | 2000                                                      | 47.5              | 61.5              |
|                             | 4000                                                      | 43.5              | 58.5              |
|                             | 8000                                                      | 47.5              | 54.5              |
|                             | Sound Rating (dBA)                                        | <b>57</b>         | <b>73.0</b>       |
| 60 – 30                     | Freq (Hz)                                                 | 1200 RPM          | 4140 RPM          |
|                             | 125                                                       | 39.0              | 49.5              |
|                             | 250                                                       | 48.0              | 59.5              |
|                             | 500                                                       | 46.5              | 62.0              |
|                             | 1000                                                      | 45.5              | 60.0              |
|                             | 2000                                                      | 39.5              | 58.5              |
|                             | 4000                                                      | 36.5              | 55.0              |
|                             | 8000                                                      | 35.5              | 48.0              |
|                             | Sound Rating (dBA)                                        | 57                | 72                |

**NOTE:** Tested in compliance with AHRI 270–2008 but not listed with AHRI.

## ACCESSORIES

| KIT NUMBER   | KIT NAME           | 13–30 | 24A–30<br>24B–30 | 25–30 | 36–30 | 37–30 | 48–30 | 49–30 | 60 |
|--------------|--------------------|-------|------------------|-------|-------|-------|-------|-------|----|
| KSASF0101AAA | SPRT FEET KIT      |       |                  |       |       | X     | X     | X     | X  |
| KSASF0201AAA | SPRT FEET KIT      | X     | X                | X     | X     | X     |       |       |    |
| KSATX0201PUR | TXV KIT            | X     | X                | X     |       |       |       |       |    |
| KSATX0301PUR | TXV KIT            |       |                  |       | X     | X     |       |       |    |
| KSATX0401PUR | TXV KIT            |       |                  |       |       |       | X     | X     |    |
| KSATX0501PUR | TXV KIT            |       |                  |       |       |       |       |       | X  |
| KSBTX0201PUR | TXV KIT            | X     | X                | X     |       |       |       |       |    |
| KSBTX0301PUR | TXV KIT            |       |                  |       | X     | X     |       |       |    |
| KSBTX0401PUR | TXV KIT            |       |                  |       |       |       | X     | X     |    |
| LM10KK003    | VAPOR LINE MUFFLER | X     | X                | X     | X     | X     | X     | X     | X  |

x = Accessory

## Accessory Description and Usage

### Support Feet

Raises unit above base pad. 2 and 3 ton kit contains 5 feet for stable installation with small base. 4 and 5 ton kit contains 4 feet.

Usage Guideline:

Recommended for rooftop applications

### Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Required if indoor unit does not already contain Puron® refrigerant TXV

### Vapor Line Muffler

An external muffler installed in the vapor line to minimize vibration transmitted through refrigerant lines

Usage Guideline:

Recommended if vapor line is not installed per recommendations in the installation instructions and vibration may be transmitted into the structure.

## CONTROLS

|                       |                                                                                                                                                  |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SYSTXCCITN01–A</b> | Infinity Touch Control (non–Wi–Fi)<br>(version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.) |
| <b>SYSTXCCITC01–A</b> | Infinity Touch Control (Wi–Fi)<br>(version 11 software or newer for 5 stage operation on sizes 24 – 60 and version 12 or higher on size 13.)     |
| <b>SYSTXCCITW01–A</b> | Infinity Touch Control with Wi–Fi & Wireless Access Point                                                                                        |
| <b>SYSTXCC4ZC01</b>   | Infinity 4–Zone Damper Control Module                                                                                                            |
| <b>SYSTXCCSMS01</b>   | Infinity Smart Sensor (Optional wall control used to monitor temperature and/or fan control in an individual zone.)                              |
| <b>SYSTXCCNIM01</b>   | Infinity Network Interface Module (Connects Heat Recovery and Energy Recovery Ventilators on non–zoning applications.)                           |
| <b>SYSTXCCSMS01</b>   | Infinity Smart Sensor                                                                                                                            |

## THERMOSTATS

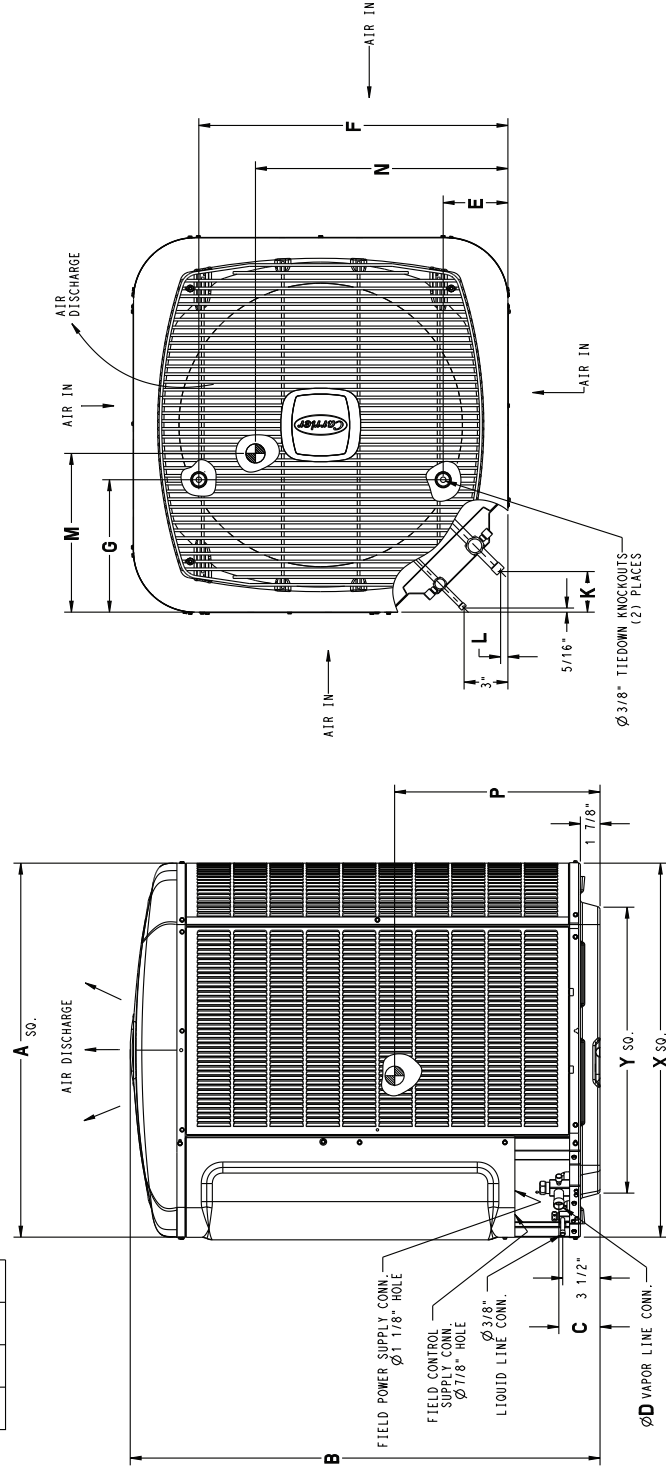
| PART NUMBER | PROGRAM | GAS | ELECTRIC | HEAT | COOL |
|-------------|---------|-----|----------|------|------|
| TP–PAC01    | 7–Day   | √   | √        | 1    | 1    |
| TP–NRH01–A  | NP      | √   | √        | 3    | 2    |
| TP–NAC01    | NP      | √   | √        | 1    | 1    |

# DIMENSIONS - ENGLISH

| UNIT     | SERIES | ELECTRICAL CHARACTERISTICS |   |   | A        | B        | C      | D    | E       | F         | G        | K        | L    | M       | N       | P       | OPERATING WEIGHT (lbs) | SHIPPING WEIGHT (lbs) | SHIPPING DIMENSIONS (L x W x H) |   |         |   |          |
|----------|--------|----------------------------|---|---|----------|----------|--------|------|---------|-----------|----------|----------|------|---------|---------|---------|------------------------|-----------------------|---------------------------------|---|---------|---|----------|
| 2WN4913A | 0      | X                          | 0 | 0 | 23 1/8"  | 31 5/8"  | 3 3/4" | 3/4" | 4 7/16" | 18 1/16"  | 7 13/16" | 2 13/16" | 1/2" | 11 1/4" | 11 1/4" | 14 1/2" | 135                    | 158                   | 25 1/4"                         | X | 25 1/4" | X | 35 5/8"  |
| 2WN4924A | 0      | X                          | 0 | 0 | 23 1/8"  | 38 7/16" | 3 3/4" | 3/4" | 4 7/16" | 18 1/16"  | 7 13/16" | 2 13/16" | 1/2" | 10 3/4" | 10 3/4" | 18 1/4" | 160                    | 186                   | 25 1/4"                         | X | 25 1/4" | X | 34 3/8"  |
| 2WN4924B | 0      | X                          | 0 | 0 | 23 1/8"  | 31 5/8"  | 3 3/4" | 3/4" | 4 7/16" | 18 1/16"  | 7 13/16" | 2 13/16" | 1/2" | 11 1/4" | 11 1/4" | 14 1/2" | 135                    | 158                   | 25 1/4"                         | X | 25 1/4" | X | 35 5/8"  |
| 2WN4925A | 0      | X                          | 0 | 0 | 23 1/8"  | 38 7/16" | 3 3/4" | 3/4" | 4 7/16" | 18 1/16"  | 7 13/16" | 2 13/16" | 1/2" | 10 3/4" | 10 3/4" | 18 1/4" | 160                    | 186                   | 25 1/4"                         | X | 25 1/4" | X | 34 3/8"  |
| 2WN4936A | 0      | X                          | 0 | 0 | 23 1/8"  | 38 7/16" | 3 3/4" | 3/4" | 4 7/16" | 18 1/16"  | 7 13/16" | 2 13/16" | 1/2" | 10 3/4" | 10 3/4" | 18 1/4" | 160                    | 186                   | 25 1/4"                         | X | 25 1/4" | X | 43 3/8"  |
| 2WN4937A | 0      | X                          | 0 | 0 | 31 3/16" | 39 3/4"  | 3 7/8" | 7/8" | 6 9/16" | 24 11/16" | 9 1/8"   | 2 15/16" | 5/8" | 14 1/2" | 14 5/8" | 18 3/4" | 216                    | 255                   | 33 3/8"                         | X | 33 3/8" | X | 46 1/8"  |
| 2WN4948A | 0      | X                          | 0 | 0 | 31 3/16" | 39 3/4"  | 3 7/8" | 7/8" | 6 9/16" | 24 11/16" | 9 1/8"   | 2 15/16" | 5/8" | 14 1/2" | 14 5/8" | 18 3/4" | 216                    | 255                   | 33 3/8"                         | X | 33 3/8" | X | 46 1/8"  |
| 2WN4949A | 0      | X                          | 0 | 0 | 35"      | 44"      | 3 7/8" | 7/8" | 6 9/16" | 28 7/16"  | 9 1/8"   | 2 15/16" | 5/8" | 16 1/4" | 16 1/4" | 20 1/2" | 262                    | 300                   | 36 1/8"                         | X | 39 3/4" | X | 50 3/16" |
| 2WN4960A | 0      | X                          | 0 | 0 | 31 3/16" | 43 3/16" | 3 7/8" | 7/8" | 6 9/16" | 24 11/16" | 9 1/8"   | 2 15/16" | 5/8" | 16 1/2" | 15"     | 20"     | 241                    | 282                   | 33 3/8"                         | X | 33 3/8" | X | 49 9/16" |

|              |
|--------------|
| 460-3-60     |
| 208/230-3-60 |
| 230-1-60     |
| 208-230-1-60 |

X = YES  
O = NO



When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) (above unit, for proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m) Position so water, snow, or ice from roof or eaves cannot fall directly on unit.

**NOTE:** 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with lower panels require 24" (609.6 mm) between units.

On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

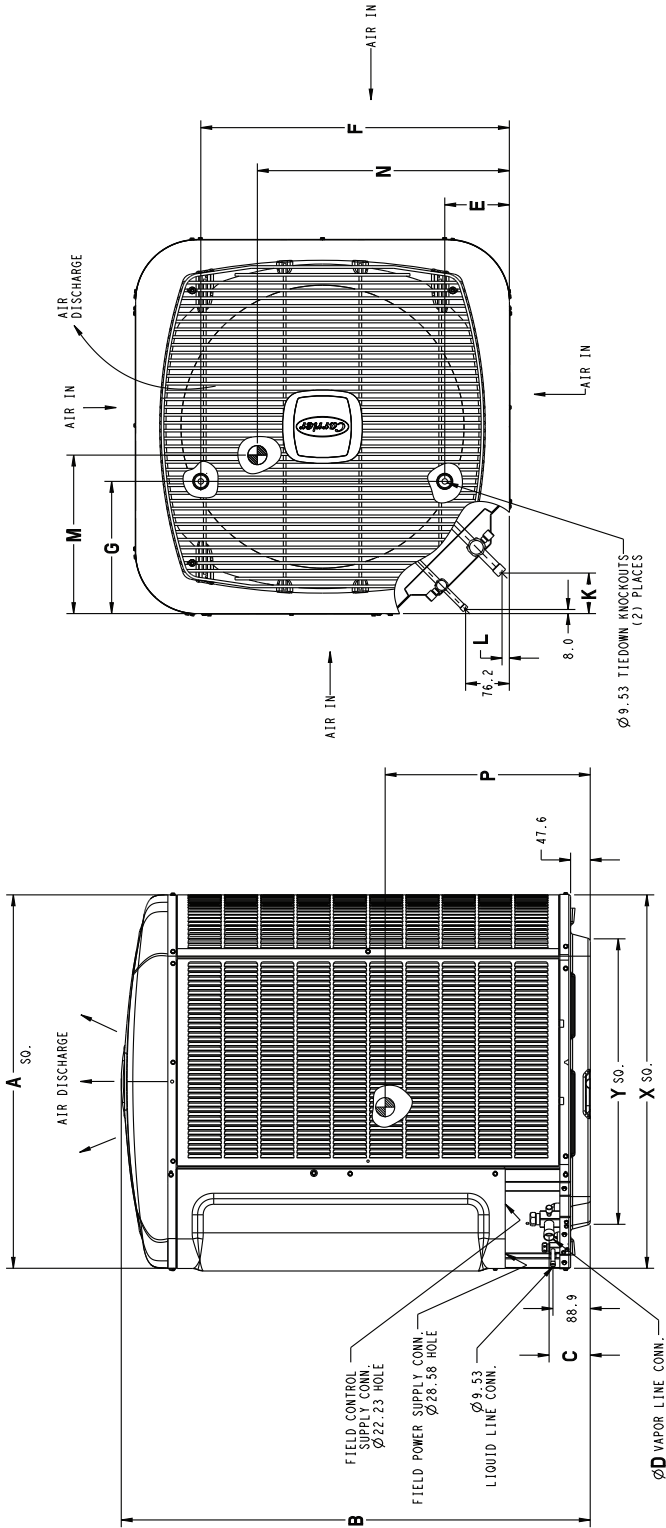
| UNIT SIZE      | "X" MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS | "Y" MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |
|----------------|----------------------------------------------------|------------------------------------------------------|
| 13, 24, 25, 36 | 23 1/8"                                            | 17 3/4"                                              |
| -              | 25 3/4"                                            | 20 1/16"                                             |
| 37, 48, 60     | 31 3/16"                                           | 23"                                                  |
| 70             | 36"                                                | 26 3/4"                                              |

DIMENSIONS - SI

| UNIT      | SERIES | ELECTRICAL CHARACTERISTICS |   |   | A     | B      | C    | D    | E     | F     | G     | K    | L    | M     | N     | P     | OPERATING WEIGHT (Kgs) | SHIPPING WEIGHT (Kgs) | SHIPPING DIMENSIONS (L x W x H) |  |  |
|-----------|--------|----------------------------|---|---|-------|--------|------|------|-------|-------|-------|------|------|-------|-------|-------|------------------------|-----------------------|---------------------------------|--|--|
| 24VNA913A | 0      | X                          | 0 | 0 | 587.3 | 803.1  | 96.1 | 19.1 | 112.7 | 458.8 | 198.4 | 71.4 | 12.7 | 285.8 | 285.8 | 368.3 | 61.2                   | 71.7                  | 641.5 X 641.5 X 905.2           |  |  |
| 24VNA924A | 0      | X                          | 0 | 0 | 587.3 | 975.9  | 96.1 | 19.1 | 112.7 | 458.8 | 198.4 | 71.4 | 12.7 | 273.1 | 273.1 | 463.6 | 72.6                   | 84.4                  | 641.5 X 641.5 X 1102.2          |  |  |
| 24VNA924B | 0      | X                          | 0 | 0 | 587.3 | 803.1  | 96.1 | 19.1 | 112.7 | 458.8 | 198.4 | 71.4 | 12.7 | 285.8 | 285.8 | 368.3 | 61.2                   | 71.7                  | 641.5 X 641.5 X 905.2           |  |  |
| 24VNA925A | 0      | X                          | 0 | 0 | 587.3 | 975.9  | 96.1 | 19.1 | 112.7 | 458.8 | 198.4 | 71.4 | 12.7 | 273.1 | 273.1 | 463.6 | 72.6                   | 84.4                  | 641.5 X 641.5 X 1102.2          |  |  |
| 24VNA936A | 0      | X                          | 0 | 0 | 587.3 | 975.9  | 96.1 | 19.1 | 112.7 | 458.8 | 198.4 | 71.4 | 12.7 | 273.1 | 273.1 | 463.6 | 72.6                   | 84.4                  | 641.5 X 641.5 X 1102.2          |  |  |
| 24VNA937A | 0      | X                          | 0 | 0 | 792.2 | 1010.3 | 98.4 | 22.2 | 166.7 | 627.1 | 231.8 | 74.6 | 15.9 | 368.3 | 371.5 | 476.3 | 98.0                   | 115.7                 | 846.6 X 846.6 X 1172.2          |  |  |
| 24VNA948A | 0      | X                          | 0 | 0 | 792.2 | 1010.3 | 98.4 | 22.2 | 166.7 | 627.1 | 231.8 | 74.6 | 15.9 | 368.3 | 371.5 | 476.3 | 98.0                   | 115.7                 | 846.6 X 846.6 X 1172.2          |  |  |
| 24VNA949A | 0      | X                          | 0 | 0 | 889.0 | 1117.6 | 98.4 | 22.2 | 166.7 | 722.3 | 231.8 | 74.6 | 15.9 | 412.8 | 412.8 | 520.7 | 118.8                  | 136.1                 | 917.6 X 997.0 X 1274.8          |  |  |
| 24VNA960A | 0      | X                          | 0 | 0 | 792.2 | 1096.7 | 98.4 | 22.2 | 166.7 | 627.1 | 231.8 | 74.6 | 15.9 | 419.1 | 381.0 | 508.0 | 109.3                  | 127.9                 | 846.6 X 846.6 X 1258.6          |  |  |

|             |         |              |          |
|-------------|---------|--------------|----------|
| 208-230-160 | 230-160 | 208/230-3-60 | 460-3-60 |
|-------------|---------|--------------|----------|

X = YES  
0 = NO



| UNIT SIZE      | X MIN GROUND MOUNTING PAD APPLICATION DIMENSIONS | Y MIN ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |
|----------------|--------------------------------------------------|----------------------------------------------------|
| 13, 24, 25, 36 | 587.4                                            | 451.3                                              |
| -              | 634.0                                            | 518.5                                              |
| 37, 48, 60     | 792.2                                            | 583.2                                              |
| 49             | 889.0                                            | 679.7                                              |

When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. Allow 24 in. (609.6 mm) clearance to service end of unit and 48 in. (1219.2 mm) (above unit. For proper airflow, a 6-in. (152.4 mm) clearance on 1 side of unit and 12-in. (304.8 mm) on all remaining sides must be maintained. Maintain a distance of 24 in. (609.6 mm) between units or 18 in. (457.2 mm) if no overhang within 12 ft. (3.66 m) Position so water, snow, or ice from roof or eaves cannot fall directly on unit.

**NOTE:** 18" (457.2 mm) clearance option described above is approved for outdoor units with wire grille coil guard only. Units with lower panels require 24" (609.6 mm) between units.

On rooftop applications, locate unit at least 6 in. (152.4 mm) above roof surface.

## TESTED AHRI COMBINATION RATINGS\*

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Carrier database at: [www.MyCarrierRatings.com](http://www.MyCarrierRatings.com)

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmob.wrightsoft.com/>

| Model Number  | Coil Model Number | Furnace Model Number | Cooling Capacity High | SEER | EER  | ID CFM |
|---------------|-------------------|----------------------|-----------------------|------|------|--------|
| 24VNA913A**30 | FE4ANF002L+UI     |                      | 12800                 | 17.0 | 13.0 | 420    |
| 24VNA924A**30 | FE4AN(B,F)005L+UI |                      | 23000                 | 18.0 | 11.0 | 825    |
| 24VNA924A**30 | FV4CN(B,F)003L    |                      | 22600                 | 16.0 | 11.0 | 700    |
| 24VNA924B**30 | FE4ANF002L+UI     |                      | 24000                 | 18.0 | 11.0 | 825    |
| 24VNA924B**30 | FV4CNF002L        |                      | 23800                 | 16.0 | 11.0 | 700    |
| 24VNA925A**30 | FE4AN(B,F)005L+UI |                      | 24000                 | 19.0 | 12.5 | 825    |
| 24VNA925A**30 | FV4CN(B,F)003L    |                      | 22600                 | 19.0 | 12.2 | 700    |
| 24VNA936A**30 | FE4AN(B,F)005L+UI |                      | 35000                 | 18.0 | 10.5 | 1050   |
| 24VNA936A**30 | FV4CN(B,F)005L    |                      | 35000                 | 16.0 | 10.5 | 1050   |
| 24VNA937A**30 | FE4ANB006L+UI     |                      | 33600                 | 19.0 | 13.0 | 1050   |
| 24VNA948A**30 | FE4ANB006L+UI     |                      | 46500                 | 19.0 | 11.0 | 1400   |
| 24VNA948A**30 | FV4CNB006L        |                      | 46000                 | 15.5 | 11.0 | 1400   |
| 24VNA949A**30 | CNPV*6024AL       | 58CV(A,X)155-22+UL   | 44500                 | 19.0 | 12.5 | 1200   |
| 24VNA960A**30 | FE4ANB006L+UI     |                      | 57000                 | 17.0 | 10.0 | 1600   |
| 24VNA960A**30 | FV4CNB006L        |                      | 57500                 | 15.0 | 10.0 | 1750   |

\* Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included. Ratings are based on:

**Cooling Standard:** 80°F (27°C) db 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

**EER** — Energy Efficiency Ratio

**SEER** — Seasonal Energy Efficiency Ratio

**UI** — User Interface

NOTE: Ratings contained in this document are subject to change at any time.

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE

| EDB °F       |              | EVAPE AIR    |     | 24VNA913 / FE4AHF002L Efficiency/Mode<br>Condenser Entering Air Temperature °F (°C) |       |         |                 |                |       |         |                 |                |       |         |                 |                |       |         |                 |
|--------------|--------------|--------------|-----|-------------------------------------------------------------------------------------|-------|---------|-----------------|----------------|-------|---------|-----------------|----------------|-------|---------|-----------------|----------------|-------|---------|-----------------|
|              |              |              |     | 115 (46.1)                                                                          |       |         |                 | 105 (40.5)     |       |         |                 | 95 (35)        |       |         |                 | 85 (29.4)      |       |         |                 |
|              |              |              |     | Capacity MBtuh                                                                      |       | ID SCFM | Total Sys. KW** | Capacity MBtuh |       | ID SCFM | Total Sys. KW** | Capacity MBtuh |       | ID SCFM | Total Sys. KW** | Capacity MBtuh |       | ID SCFM | Total Sys. KW** |
|              |              |              |     |                                                                                     |       |         |                 |                |       |         |                 |                |       |         |                 |                |       |         |                 |
|              |              | °F (°C)      |     | Total                                                                               | Sens† |         |                 | Total          | Sens† |         |                 | Total          | Sens† |         |                 | Total          | Sens† |         |                 |
| 75<br>(23.9) | 75<br>(23.9) | 67<br>(19.4) | 420 | 12.59                                                                               | 5.26  | 1.36    | 1.17            | 13.48          | 5.59  | 420     | 1.17            | 14.21          | 5.86  | 420     | 0.98            | 15.07          | 6.18  | 420     | 0.81            |
|              |              |              |     | 11.37                                                                               | 7.16  | 1.35    | 1.17            | 12.17          | 7.50  | 420     | 1.17            | 12.84          | 7.79  | 420     | 0.98            | 13.61          | 8.13  | 420     | 0.82            |
|              |              |              |     | 10.47                                                                               | 8.84  | 1.34    | 1.17            | 11.21          | 8.99  | 420     | 1.17            | 11.83          | 9.30  | 420     | 0.99            | 12.53          | 9.64  | 420     | 0.83            |
|              |              |              |     | 9.83                                                                                | 9.83  | 1.34    | 1.17            | 10.40          | 10.40 | 420     | 1.17            | 10.89          | 10.89 | 420     | 0.99            | 11.42          | 11.42 | 420     | 0.84            |
| 80<br>(26.7) | 80<br>(26.7) | 67<br>(19.4) | 420 | 12.55                                                                               | 7.18  | 1.36    | 1.17            | 13.44          | 7.52  | 420     | 1.17            | 14.16          | 7.81  | 420     | 0.98            | 15.02          | 8.15  | 420     | 0.81            |
|              |              |              |     | 11.34                                                                               | 9.04  | 1.35    | 1.17            | 12.13          | 9.40  | 420     | 1.17            | 12.80          | 9.71  | 420     | 0.98            | 13.57          | 10.07 | 420     | 0.82            |
|              |              |              |     | 10.52                                                                               | 10.47 | 1.35    | 1.17            | 11.23          | 10.87 | 420     | 1.17            | 11.84          | 11.20 | 420     | 0.99            | 12.54          | 11.57 | 420     | 0.83            |
|              |              |              |     | 10.48                                                                               | 10.48 | 1.34    | 1.17            | 11.08          | 11.08 | 420     | 1.17            | 11.59          | 11.59 | 420     | 0.99            | 12.16          | 12.16 | 420     | 0.83            |
| 75<br>(23.9) | 75<br>(23.9) | 67<br>(19.4) | 300 | 10.14                                                                               | 4.18  | 1.01    | 0.90            | 10.85          | 4.45  | 300     | 0.90            | 12.12          | 5.12  | 300     | 0.77            | 12.91          | 5.41  | 300     | 0.66            |
|              |              |              |     | 9.12                                                                                | 5.54  | 1.01    | 0.91            | 9.75           | 5.82  | 300     | 0.91            | 10.91          | 7.08  | 300     | 0.79            | 11.61          | 7.38  | 300     | 0.68            |
|              |              |              |     | 8.38                                                                                | 6.82  | 1.01    | 0.91            | 8.86           | 6.90  | 300     | 0.91            | 10.04          | 8.80  | 300     | 0.79            | 10.67          | 8.92  | 300     | 0.69            |
|              |              |              |     | 7.73                                                                                | 7.73  | 1.00    | 0.92            | 8.17           | 8.17  | 300     | 0.92            | 9.57           | 9.57  | 300     | 0.80            | 10.07          | 10.07 | 300     | 0.70            |
| 80<br>(26.7) | 80<br>(26.7) | 67<br>(19.4) | 300 | 10.10                                                                               | 5.57  | 1.01    | 0.90            | 10.82          | 5.86  | 300     | 0.90            | 12.07          | 7.11  | 300     | 0.77            | 12.86          | 7.42  | 300     | 0.66            |
|              |              |              |     | 9.09                                                                                | 6.92  | 1.01    | 0.91            | 9.73           | 7.22  | 300     | 0.91            | 10.89          | 9.03  | 300     | 0.79            | 11.58          | 9.36  | 300     | 0.68            |
|              |              |              |     | 8.39                                                                                | 7.99  | 1.01    | 0.91            | 8.97           | 8.29  | 300     | 0.91            | 10.24          | 10.24 | 300     | 0.79            | 10.78          | 10.78 | 300     | 0.69            |
|              |              |              |     | 8.23                                                                                | 8.23  | 1.01    | 0.91            | 8.70           | 8.70  | 300     | 0.91            | 10.23          | 10.23 | 300     | 0.79            | 10.75          | 10.75 | 300     | 0.69            |
| 75<br>(23.9) | 75<br>(23.9) | 67<br>(19.4) | 200 | 8.50                                                                                | 3.45  | 0.83    | 0.77            | 9.09           | 3.68  | 200     | 0.77            | 8.44           | 3.80  | 200     | 0.51            | 9.06           | 3.83  | 200     | 0.44            |
|              |              |              |     | 7.65                                                                                | 4.36  | 0.83    | 0.77            | 8.17           | 4.60  | 200     | 0.77            | 7.61           | 5.05  | 200     | 0.51            | 8.16           | 5.29  | 200     | 0.45            |
|              |              |              |     | 7.04                                                                                | 5.08  | 0.82    | 0.77            | 7.51           | 5.32  | 200     | 0.77            | 7.02           | 6.18  | 200     | 0.51            | 7.51           | 6.44  | 200     | 0.46            |
|              |              |              |     | 6.23                                                                                | 6.15  | 0.81    | 0.77            | 6.63           | 6.39  | 200     | 0.77            | 6.75           | 6.75  | 200     | 0.52            | 7.16           | 7.16  | 200     | 0.47            |
| 80<br>(26.7) | 80<br>(26.7) | 67<br>(19.4) | 200 | 8.48                                                                                | 4.39  | 0.83    | 0.77            | 9.06           | 4.63  | 200     | 0.77            | 8.40           | 5.06  | 200     | 0.51            | 9.02           | 5.30  | 200     | 0.44            |
|              |              |              |     | 7.63                                                                                | 5.29  | 0.83    | 0.77            | 8.15           | 5.54  | 200     | 0.77            | 7.59           | 6.49  | 200     | 0.51            | 8.14           | 6.76  | 200     | 0.45            |
|              |              |              |     | 7.03                                                                                | 6.01  | 0.82    | 0.77            | 7.49           | 6.26  | 200     | 0.77            | 7.23           | 7.23  | 200     | 0.51            | 7.66           | 7.66  | 200     | 0.46            |
|              |              |              |     | 6.58                                                                                | 6.58  | 0.82    | 0.77            | 6.94           | 6.94  | 200     | 0.77            | 7.22           | 7.22  | 200     | 0.51            | 7.65           | 7.65  | 200     | 0.46            |
| 75<br>(23.9) | 75<br>(23.9) | 67<br>(19.4) | 300 | 10.28                                                                               | 4.28  | 0.28    | 0.36            | 9.23           | 5.77  | 300     | 0.36            | 9.67           | 4.05  | 300     | 0.36            | 10.28          | 4.28  | 300     | 0.36            |
|              |              |              |     | 9.23                                                                                | 5.77  | 0.31    | 0.39            | 8.46           | 6.93  | 300     | 0.39            | 8.70           | 5.53  | 300     | 0.39            | 9.23           | 5.77  | 300     | 0.31            |
|              |              |              |     | 8.46                                                                                | 6.93  | 0.34    | 0.40            | 7.90           | 7.90  | 300     | 0.40            | 8.00           | 6.69  | 300     | 0.40            | 8.46           | 6.93  | 300     | 0.34            |
|              |              |              |     | 7.90                                                                                | 7.90  | 0.36    | 0.41            | 7.54           | 7.54  | 300     | 0.41            | 7.54           | 7.54  | 300     | 0.41            | 7.90           | 7.90  | 300     | 0.36            |
| 80<br>(26.7) | 80<br>(26.7) | 67<br>(19.4) | 300 | 10.24                                                                               | 5.80  | 0.28    | 0.36            | 9.21           | 7.28  | 300     | 0.36            | 9.64           | 5.55  | 300     | 0.36            | 10.24          | 5.80  | 300     | 0.28            |
|              |              |              |     | 9.21                                                                                | 7.28  | 0.31    | 0.39            | 8.50           | 8.42  | 300     | 0.39            | 8.68           | 7.02  | 300     | 0.39            | 9.21           | 7.28  | 300     | 0.31            |
|              |              |              |     | 8.50                                                                                | 8.42  | 0.33    | 0.40            | 8.08           | 8.08  | 300     | 0.40            | 8.08           | 8.08  | 300     | 0.40            | 8.50           | 8.42  | 300     | 0.33            |
|              |              |              |     | 8.46                                                                                | 8.46  | 0.34    | 0.40            | 8.06           | 8.06  | 300     | 0.40            | 8.06           | 8.06  | 300     | 0.40            | 8.46           | 8.46  | 300     | 0.34            |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 48

# DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA913

| COOLING INDOOR<br>MODEL | CAPACITY | POWER | FURNACE MODEL    |
|-------------------------|----------|-------|------------------|
| *FE4ANF002L             | 1.00     | 1.00  |                  |
| CAP**1814AL*            | 0.98     | 0.98  | 58CV(A.X)070-12  |
| CAP**2414AL*            | 0.99     | 0.99  | 58CV(A.X)070-12  |
| CAP**2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CAP**2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CNPH*2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CNPH*2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CNPV*2414AL*            | 1.00     | 1.00  | 58CV(A.X)070-12  |
| CNPV*2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CNPV*2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CSPH*2412AL*            | 1.00     | 1.00  | 59*N*A060V17**14 |
| CSPH*2412AL*            | 1.00     | 1.00  | 59*N*A080V17**14 |

See additional notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>°F (°C) | EVAAP.<br>AIR | 24VNA924A / FE4ANF005 Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                |       |                       |            |                |            |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|----------------|---------------|-------------------------------------------------------------------------------------|----------------|-------|-----------------------|------------|----------------|------------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-----------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-----------|-----------------------|-------|-------|-------|-------|
|                |               | 115 (46.1)                                                                          |                |       |                       |            |                | 105 (40.5) |                       |            |                |       |                       | 95 (35)    |                |       |                       |            |                | 85 (29.4) |                       |            |                |       |                       | 75 (23.9)  |                |       |                       |            |                | 65 (18.3) |                       |       |       |       |       |
|                |               | ID<br>SCFM                                                                          | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |            | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |           | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |           | Total<br>Sys.<br>KW** |       |       |       |       |
|                |               |                                                                                     | Total          | Sens† |                       |            | Total          | Sens†      |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens†     |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens†     |                       | Total | Sens† | Total | Sens† |
| 75<br>(23.9)   | 72<br>(22.2)  | 825                                                                                 | 22.60          | 9.53  | 3.21                  | 825        | 24.02          | 10.05      | 2.61                  | 825        | 25.33          | 10.54 | 2.07                  | 825        | 26.67          | 11.04 | 1.60                  | 825        | 27.98          | 11.54     | 1.20                  | 825        | 29.26          | 12.02 | 0.84                  |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 67<br>(19.4)  |                                                                                     | 20.56          | 13.19 | 3.20                  |            | 21.88          | 13.76      | 2.63                  |            | 23.10          | 14.31 | 2.09                  |            | 24.34          | 14.86 | 1.64                  |            | 25.55          | 15.41     | 1.24                  |            | 26.73          | 15.95 | 0.89                  |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 63<br>(17.2)  |                                                                                     | 19.06          | 16.04 | 3.19                  |            | 20.29          | 16.66      | 2.63                  |            | 21.44          | 17.25 | 2.10                  |            | 22.61          | 17.85 | 1.66                  |            | 23.74          | 18.44     | 1.26                  |            | 24.85          | 19.01 | 0.93                  |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 57<br>(13.9)  |                                                                                     | 18.10          | 18.10 | 3.18                  |            | 19.09          | 19.09      | 2.63                  |            | 20.04          | 20.04 | 2.11                  |            | 20.97          | 20.97 | 1.67                  |            | 21.89          | 21.89     | 1.29                  |            | 22.78          | 22.78 | 0.96                  |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 22.44          | 13.14 | 3.20                  |            | 23.85          | 13.70      | 2.61                  |            | 25.15          | 14.23 | 2.06                  |            | 26.49          | 14.77 | 1.60                  |            | 27.80          | 15.31     | 1.19                  |            | 29.07          | 15.84 | 0.84                  |            |                |       |                       |            |                |           |                       |       |       |       |       |
| 80<br>(26.7)   | 67<br>(19.4)  | 825                                                                                 | 20.48          | 16.76 | 3.20                  | 21.79      | 17.38          | 2.62       | 23.00                 | 17.96      | 2.09           | 24.24 | 18.56                 | 1.63       | 25.45          | 19.15 | 1.23                  | 26.62      | 19.73          | 0.89      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 63<br>(17.2)  |                                                                                     | 19.26          | 19.26 | 3.19                  | 20.37      | 20.18          | 2.63       | 21.49                 | 20.85      | 2.10           | 22.63 | 21.51                 | 1.65       | 23.75          | 22.15 | 1.26                  | 24.85      | 22.77          | 0.92      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 57<br>(13.9)  |                                                                                     | 19.23          | 19.23 | 3.19                  | 20.28      | 20.28          | 2.63       | 21.25                 | 21.25      | 2.10           | 22.23 | 22.23                 | 1.66       | 23.18          | 23.18 | 1.27                  | 24.10      | 24.10          | 0.94      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | STAGE 3       |                                                                                     |                |       |                       |            |                |            |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 15.08          | 6.47  | 1.54                  | 16.06      | 6.82           | 1.33       | 16.82                 | 7.10       | 1.10           | 17.75 | 7.44                  | 0.91       | 18.67          | 7.78  | 0.72                  | 19.58      | 8.12           | 0.54      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
| 75<br>(23.9)   | 67<br>(19.4)  | 650                                                                                 | 13.68          | 9.15  | 1.54                  | 14.59      | 9.54           | 1.35       | 15.33                 | 9.87       | 1.12           | 16.19 | 10.25                 | 0.94       | 17.03          | 10.62 | 0.76                  | 17.86      | 10.99          | 0.59      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 63<br>(17.2)  |                                                                                     | 12.70          | 11.25 | 1.54                  | 13.54      | 11.67          | 1.36       | 14.27                 | 12.04      | 1.13           | 15.07 | 12.45                 | 0.96       | 15.86          | 12.85 | 0.79                  | 16.62      | 13.24          | 0.62      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 57<br>(13.9)  |                                                                                     | 12.27          | 12.27 | 1.54                  | 12.97      | 12.97          | 1.37       | 13.58                 | 13.58      | 1.14           | 14.24 | 14.24                 | 0.97       | 14.89          | 14.89 | 0.81                  | 15.52      | 15.52          | 0.65      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 14.96          | 9.12  | 1.53                  | 15.93      | 9.51           | 1.33       | 16.68                 | 9.81       | 1.10           | 17.61 | 10.18                 | 0.91       | 18.52          | 10.55 | 0.72                  | 19.47      | 10.93          | 0.54      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 67<br>(19.4)  |                                                                                     | 13.64          | 11.78 | 1.54                  | 14.54      | 12.20          | 1.35       | 15.27                 | 12.55      | 1.12           | 16.13 | 12.96                 | 0.94       | 16.96          | 13.36 | 0.76                  | 17.78      | 13.76          | 0.59      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
| 80<br>(26.7)   | 63<br>(17.2)  | 650                                                                                 | 13.08          | 13.08 | 1.54                  | 13.82      | 13.82          | 1.36       | 14.43                 | 14.43      | 1.13           | 15.14 | 15.09                 | 0.96       | 15.89          | 15.56 | 0.79                  | 16.65      | 15.99          | 0.62      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 57<br>(13.9)  |                                                                                     | 13.06          | 13.06 | 1.54                  | 13.79      | 13.79          | 1.36       | 14.41                 | 14.41      | 1.13           | 15.10 | 15.10                 | 0.96       | 15.77          | 15.77 | 0.79                  | 16.42      | 16.42          | 0.63      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | STAGE 1       |                                                                                     |                |       |                       |            |                |            |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 11.92          | 5.31  | 0.85                  | 12.72      | 5.59           | 0.82       | 10.55                 | 4.66       | 0.46           | 11.18 | 4.89                  | 0.44       | 11.84          | 5.13  | 0.39                  | 12.52      | 5.37           | 0.28      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 67<br>(19.4)  |                                                                                     | 10.80          | 7.83  | 0.86                  | 11.55      | 8.14           | 0.83       | 9.58                  | 6.85       | 0.47           | 10.16 | 7.10                  | 0.47       | 10.74          | 7.35  | 0.43                  | 11.36      | 7.61           | 0.34      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
| 75<br>(23.9)   | 63<br>(17.2)  | 650                                                                                 | 10.05          | 9.78  | 0.86                  | 10.74      | 10.13          | 0.84       | 8.93                  | 8.56       | 0.49           | 9.46  | 8.83                  | 0.49       | 10.00          | 9.10  | 0.46                  | 10.55      | 9.37           | 0.38      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 57<br>(13.9)  |                                                                                     | 9.97           | 9.97  | 0.86                  | 10.57      | 10.57          | 0.85       | 8.82                  | 8.82       | 0.49           | 9.29  | 9.29                  | 0.50       | 9.75           | 9.75  | 0.47                  | 10.21      | 10.21          | 0.40      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 11.80          | 7.81  | 0.85                  | 12.59      | 8.12           | 0.82       | 10.41                 | 6.81       | 0.46           | 11.06 | 7.06                  | 0.44       | 11.73          | 7.32  | 0.38                  | 12.41      | 7.59           | 0.28      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 67<br>(19.4)  |                                                                                     | 10.80          | 10.29 | 0.86                  | 11.52      | 10.64          | 0.83       | 9.55                  | 8.98       | 0.47           | 10.13 | 9.25                  | 0.47       | 10.71          | 9.53  | 0.43                  | 11.32      | 9.81           | 0.34      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 63<br>(17.2)  |                                                                                     | 10.66          | 10.66 | 0.86                  | 11.28      | 11.28          | 0.84       | 9.40                  | 9.40       | 0.48           | 9.89  | 9.89                  | 0.48       | 10.37          | 10.37 | 0.44                  | 10.87      | 10.87          | 0.36      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
| 80<br>(26.7)   | 57<br>(13.9)  | 650                                                                                 | 10.64          | 10.64 | 0.86                  | 11.26      | 11.26          | 0.84       | 9.39                  | 9.39       | 0.48           | 9.87  | 9.87                  | 0.48       | 10.35          | 10.35 | 0.44                  | 10.85      | 10.85          | 0.36      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | STAGE 1       |                                                                                     |                |       |                       |            |                |            |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 72<br>(22.2)  |                                                                                     | 12.52          | 5.37  | 0.28                  | 12.52      | 5.37           | 0.28       | 12.52                 | 5.37       | 0.28           | 12.52 | 5.37                  | 0.28       | 12.52          | 5.37  | 0.28                  | 12.52      | 5.37           | 0.28      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 67<br>(19.4)  |                                                                                     | 11.36          | 7.61  | 0.34                  | 10.55      | 9.37           | 0.38       | 10.21                 | 10.21      | 0.40           | 12.41 | 7.59                  | 0.28       | 11.32          | 9.81  | 0.34                  | 10.87      | 10.87          | 0.36      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |
|                | 63<br>(17.2)  |                                                                                     | 10.85          | 10.85 | 0.36                  | 10.85      | 10.85          | 0.36       | 10.85                 | 10.85      | 0.36           | 10.85 | 10.85                 | 0.36       | 10.85          | 10.85 | 0.36                  | 10.85      | 10.85          | 0.36      |                       |            |                |       |                       |            |                |       |                       |            |                |           |                       |       |       |       |       |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage  
**Stage 1** — Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA924A

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *FE4AN(B,F)005L      | 1.00     | 1.00  |                  |
| FE4AN(B,F)003L       | 0.96     | 1.00  |                  |
| FE4AN(B)006L         | 0.98     | 1.08  |                  |
| FE4ANF002L           | 0.96     | 1.00  |                  |
| CAP**3614AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CNPV*3617AL*         | 0.98     | 1.08  | 58CV(A,X)070-12  |
| CNPV*3617AL*         | 0.98     | 1.08  | 58CV(A,X)070-12  |
| CNPV*3617AL*         | 0.97     | 1.01  | 58CV(A,X)070-12  |
| CNPV*3717AL*         | 0.97     | 1.02  | 58CV(A,X)070-12  |
| CNPV*4217AL*         | 0.96     | 1.00  | 58CV(A,X)070-12  |
| CSPH*3612AL*         | 1.00     | 1.05  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 1.00     | 1.05  | 58CV(A,X)070-12  |
| CAP**3617AL*         | 0.98     | 1.03  | 58CV(A,X)090-16  |
| CAP**3621AL*         | 0.98     | 1.03  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.99     | 1.04  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.98     | 1.03  | 58CV(A,X)090-16  |
| CNPV*3621AL*         | 0.98     | 1.04  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.97     | 1.01  | 58CV(A,X)090-16  |
| CNPV*3621AL*         | 0.97     | 1.01  | 58CV(A,X)090-16  |
| CNPV*3717AL*         | 0.97     | 0.97  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.96     | 1.00  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.96     | 1.00  | 58CV(A,X)090-16  |
| CSPH*3612AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
| CSPH*4212AL*         | 1.01     | 1.01  | 58CV(A,X)090-16  |
| CAP**3617AL*         | 0.98     | 1.03  | 59"N*A060V17**14 |
| CAP**3621AL*         | 0.98     | 1.03  | 59"N*A060V17**14 |
| CAP**4221AL*         | 0.98     | 1.03  | 59"N*A060V17**14 |
| CNPV*3617AL*         | 0.97     | 1.07  | 59"N*A060V17**14 |
| CNPV*4217AL*         | 0.98     | 1.08  | 59"N*A060V17**14 |
| CNPV*3617AL*         | 0.94     | 1.03  | 59"N*A060V17**14 |
| CNPV*3621AL*         | 0.94     | 1.03  | 59"N*A060V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59"N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.04  | 59"N*A060V17**14 |
| CSPH*4212AL*         | 0.99     | 1.04  | 59"N*A060V17**14 |
| CAP**3617AL*         | 1.00     | 1.05  | 59"N*A060V17**14 |
| CAP**3621AL*         | 0.98     | 1.03  | 59"N*A060V17**14 |
| CAP**4221AL*         | 0.99     | 1.04  | 59"N*A060V17**14 |
| CNPV*3617AL*         | 0.98     | 1.08  | 59"N*A080V17**14 |
| CNPV*4217AL*         | 0.99     | 1.09  | 59"N*A080V17**14 |
| CNPV*3617AL*         | 0.95     | 1.04  | 59"N*A080V17**14 |
| CNPV*3621AL*         | 0.95     | 0.99  | 59"N*A080V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59"N*A080V17**14 |
| CNPV*4217AL*         | 0.97     | 1.02  | 59"N*A080V17**14 |
| CSPH*3612AL*         | 1.00     | 1.05  | 59"N*A080V17**14 |
| CSPH*4212AL*         | 1.00     | 1.05  | 59"N*A080V17**14 |
| CAP**3617AL*         | 1.00     | 1.05  | 59"N*A080V17**14 |
| CAP**3621AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CAP**4221AL*         | 0.99     | 1.04  | 59MN7A060V21**20 |
| CAP**4224AL*         | 0.99     | 1.04  | 59MN7A060V21**20 |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                | 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |
|----------------------------------|-----------------|-------|----------------|----------------------------------|-----------------|-------|----------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model                    | High Speed Cap. | Power | Low Speed Cap. |
| FV4CN(B,F)003L                   | 0.94            | 0.94  | 0.99           |                                  | 0.94            | 0.94  | 0.94           |
| FV4CNF002L                       | 0.94            | 0.94  | 1.00           |                                  | 0.97            | 0.97  |                |
| CAP**2414AL*                     | 0.94            | 0.99  | 1.08           | 58PH*045-08                      |                 |       |                |
| CAP**2417AL*                     | 0.94            | 0.99  | 1.09           | 58PH*045-08                      |                 |       |                |
| CAP**3014AL*                     | 0.95            | 0.95  | 1.08           | 58PH*045-08                      |                 |       |                |
| CNPV*3017AL*                     | 0.95            | 0.95  | 1.09           | 58PH*045-08                      |                 |       |                |
| CNPV*2414AL*                     | 0.93            | 0.98  | 1.08           | 58PH*045-08                      |                 |       |                |
| CNPV*2417AL*                     | 0.93            | 0.98  | 1.08           | 58PH*045-08                      |                 |       |                |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.08           | 58PH*045-08                      |                 |       |                |
| CNPV*3117AL*                     | 0.95            | 1.00  | 1.09           | 58PH*045-08                      |                 |       |                |
| CNPV*3117AL*                     | 0.95            | 0.95  | 1.12           | 58PH*045-08                      |                 |       |                |
| CAP**2414AL*                     | 0.93            | 0.93  | 1.08           | 58CTW045-12                      |                 |       |                |
| CAP**2417AL*                     | 0.94            | 0.94  | 1.08           | 58CTW045-12                      |                 |       |                |
| CAP**3014AL*                     | 0.93            | 0.93  | 1.10           | 58CTW045-12                      |                 |       |                |
| CAP**3017AL*                     | 0.93            | 0.93  | 1.11           | 58CTW045-12                      |                 |       |                |
| CNPV*2414AL*                     | 0.93            | 0.98  | 1.08           | 58CTW045-12                      |                 |       |                |
| CNPV*2417AL*                     | 0.93            | 0.98  | 1.08           | 58CTW045-12                      |                 |       |                |
| CNPV*3014AL*                     | 0.93            | 0.97  | 1.10           | 58CTW045-12                      |                 |       |                |
| CNPV*3017AL*                     | 0.93            | 0.93  | 1.11           | 58CTW045-12                      |                 |       |                |
| CNPV*3117AL*                     | 0.94            | 0.94  | 1.12           | 58CTW045-12                      |                 |       |                |
| CSPH*3012AL*                     | 0.93            | 0.93  | 1.11           | 58CTW045-12                      |                 |       |                |
| CSPH*2412AL*                     | 0.93            | 0.93  | 1.11           | 58CTW070-16                      |                 |       |                |
| CAP**2417AL*                     | 0.96            | 1.05  | 1.09           | 58CTW070-16                      |                 |       |                |
| CNPV*3017AL*                     | 0.93            | 0.98  | 1.11           | 58CTW070-16                      |                 |       |                |
| CNPV*3117AL*                     | 0.93            | 0.98  | 1.12           | 58CTW070-16                      |                 |       |                |
| CNPV*2417AL*                     | 0.93            | 0.98  | 1.08           | 58CTW070-16                      |                 |       |                |
| CNPV*3017AL*                     | 0.93            | 0.93  | 1.11           | 58CTW070-16                      |                 |       |                |
| CNPV*3117AL*                     | 0.95            | 0.95  | 1.12           | 58CTW070-16                      |                 |       |                |
| CSPH*2412AL*                     | 0.97            | 1.01  | 1.09           | 58CTW070-16                      |                 |       |                |
| CSPH*3012AL*                     | 0.93            | 0.93  | 1.11           | 58CTW070-16                      |                 |       |                |
| CSPH*2412AL*                     | 0.94            | 0.94  | 1.13           | 58CTW090-16                      |                 |       |                |
| CAP**2414AL*                     | 0.95            | 0.95  | 1.14           | 58CTW090-16                      |                 |       |                |
| CAP**2417AL*                     | 0.95            | 1.00  | 1.08           | 59"P2A040E14**10                 |                 |       |                |
| CAP**3014AL*                     | 0.93            | 0.98  | 1.08           | 59"P2A040E14**10                 |                 |       |                |
| CAP**3017AL*                     | 0.94            | 0.99  | 1.07           | 59"P2A040E14**10                 |                 |       |                |
| CNPV*2414AL*                     | 0.93            | 0.97  | 1.07           | 59"P2A040E14**10                 |                 |       |                |
| CNPV*2417AL*                     | 0.93            | 0.97  | 1.07           | 59"P2A040E14**10                 |                 |       |                |
| CNPV*3014AL*                     | 0.94            | 0.99  | 1.07           | 59"P2A040E14**10                 |                 |       |                |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.08           | 59"P2A040E14**10                 |                 |       |                |
| CNPV*3117AL*                     | 0.94            | 0.94  | 1.11           | 59"P2A040E14**10                 |                 |       |                |
| CSPH*3012AL*                     | 0.97            | 1.01  | 1.09           | 59"P2A040E14**10                 |                 |       |                |
| CAP**2417AL*                     | 0.93            | 0.98  | 1.07           | 59"P2A040E17**12                 |                 |       |                |
| CAP**3017AL*                     | 0.95            | 1.00  | 1.08           | 59"P2A040E17**12                 |                 |       |                |
| CNPV*2417AL*                     | 0.95            | 1.05  | 1.08           | 59"P2A040E17**12                 |                 |       |                |
| CNPV*3017AL*                     | 0.97            | 1.01  | 1.09           | 59"P2A040E17**12                 |                 |       |                |
| CNPV*3117AL*                     | 0.93            | 0.97  | 1.07           | 59"P2A040E17**12                 |                 |       |                |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.08           | 59"P2A040E17**12                 |                 |       |                |
| CNPV*3117AL*                     | 0.97            | 1.01  | 1.09           | 59"P2A040E17**12                 |                 |       |                |
| CSPH*2412AL*                     | 0.96            | 1.00  | 1.10           | 59"P2A040E17**12                 |                 |       |                |
| CAP**2414AL*                     | 0.94            | 0.94  | 1.09           | 59"P2A060E14**12                 |                 |       |                |
| CAP**2417AL*                     | 0.95            | 0.95  | 1.10           | 59"P2A060E14**12                 |                 |       |                |
| CAP**3014AL*                     | 0.93            | 0.93  | 1.11           | 59"P2A060E14**12                 |                 |       |                |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                | 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |
|----------------------------------|-----------------|-------|----------------|----------------------------------|-----------------|-------|----------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model                    | High Speed Cap. | Power | Low Speed Cap. |
| CAP**3017AL*                     | 0.94            | 0.94  | 1.12           | 59"P2A000E14**12                 |                 |       |                |
| CNPV*2414AL*                     | 0.94            | 0.99  | 1.09           | 59"P2A000E14**12                 |                 |       |                |
| CNPV*2417AL*                     | 0.94            | 0.99  | 1.09           | 59"P2A000E14**12                 |                 |       |                |
| CNPV*3014AL*                     | 0.93            | 0.98  | 1.11           | 59"P2A000E14**12                 |                 |       |                |
| CNPV*3017AL*                     | 0.94            | 0.94  | 1.12           | 59"P2A000E14**12                 |                 |       |                |
| CSPH*2412AL*                     | 0.96            | 0.96  | 1.13           | 59"P2A000E14**12                 |                 |       |                |
| CSPH*3012AL*                     | 0.95            | 0.95  | 1.09           | 59"P2A000E14**12                 |                 |       |                |
| CSPH*2412AL*                     | 0.94            | 0.94  | 1.12           | 59"P2A000E14**12                 |                 |       |                |
| CSPH*2412AL*                     | 0.96            | 1.00  | 1.11           | 59"P2A000E17**14                 |                 |       |                |
| CSPH*2412AL*                     | 0.95            | 0.95  | 1.13           | 59"P2A000E17**14                 |                 |       |                |
| CSPH*2417AL*                     | 0.96            | 1.00  | 1.10           | 59"P2A000E17**16                 |                 |       |                |
| CSPH*2412AL*                     | 0.94            | 0.94  | 1.12           | 59"P2A000E17**16                 |                 |       |                |
| CAP**2414AL*                     | 0.93            | 1.03  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CAP**2417AL*                     | 0.94            | 1.04  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CAP**3014AL*                     | 0.95            | 1.05  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CAP**3017AL*                     | 0.93            | 1.03  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CNPV*2414AL*                     | 0.93            | 1.03  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CNPV*2417AL*                     | 0.93            | 1.03  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CNPV*3014AL*                     | 0.95            | 1.05  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CNPV*3017AL*                     | 0.95            | 1.05  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CNPV*3117AL*                     | 0.96            | 1.05  | 1.08           | 59"P5A040E14**10                 |                 |       |                |
| CSPH*2412AL*                     | 0.95            | 1.05  | 1.07           | 59"P5A040E14**10                 |                 |       |                |
| CSPH*3012AL*                     | 0.95            | 1.05  | 1.08           | 59"P5A040E14**10                 |                 |       |                |
| CAP**2417AL*                     | 0.93            | 0.97  | 1.07           | 59"P5A040E17**12                 |                 |       |                |
| CAP**3017AL*                     | 0.93            | 0.98  | 1.07           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*2417AL*                     | 0.94            | 1.04  | 1.08           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*3017AL*                     | 0.93            | 1.03  | 1.07           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*3117AL*                     | 0.92            | 1.01  | 1.07           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*3017AL*                     | 0.93            | 0.98  | 1.07           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*3117AL*                     | 0.94            | 0.99  | 1.09           | 59"P5A040E17**12                 |                 |       |                |
| CSPH*2412AL*                     | 0.96            | 1.05  | 1.10           | 59"P5A040E17**12                 |                 |       |                |
| CSPH*3012AL*                     | 0.93            | 0.98  | 1.08           | 59"P5A040E17**12                 |                 |       |                |
| CNPV*2417AL*                     | 0.96            | 1.05  | 1.10           | 59"P5A000E17**14                 |                 |       |                |
| CSPH*2412AL*                     | 0.97            | 1.01  | 1.16           | 59"P5A000E17**14                 |                 |       |                |

See notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>°F (°C) | EVAAP.<br>AIR | 24VNA924B / FE4ANF002L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |       |       |
|----------------|---------------|--------------------------------------------------------------------------------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|-----------|-------|-------|
|                |               | 115 (46.1)                                                                           |                |       |                       | 105 (40.5) |                |       |                       | 95 (35)    |                |       |                       | 85 (29.4)  |                |       |                       | 75 (23.9)  |                |       |                       | 65 (18.3) |       |       |
|                |               | ID<br>SCFM                                                                           | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** |           |       |       |
|                |               |                                                                                      | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       | Total     | Sens† | Total |
| 75<br>(23.9)   | 72<br>(22.2)  | 825                                                                                  | 23.43          | 9.90  | 2.85                  | 825        | 25.03          | 10.49 | 2.52                  | 825        | 26.46          | 11.02 | 2.20                  | 825        | 28.00          | 11.60 | 1.91                  | 825        | 29.51          | 12.16 | 1.63                  | 31.01     | 12.73 | 1.37  |
|                | 67<br>(19.4)  |                                                                                      | 21.30          | 13.70 | 2.81                  |            | 22.76          | 14.32 | 2.49                  |            | 24.07          | 14.89 | 2.18                  |            | 25.46          | 15.50 | 1.90                  |            | 26.82          | 16.10 | 1.63                  | 28.19     | 16.70 | 1.38  |
|                | 63<br>(17.2)  |                                                                                      | 19.74          | 16.69 | 2.78                  |            | 21.07          | 17.34 | 2.47                  |            | 22.29          | 17.94 | 2.17                  |            | 23.58          | 18.57 | 1.89                  |            | 24.85          | 19.20 | 1.63                  | 26.11     | 19.82 | 1.39  |
|                | 57<br>(13.9)  |                                                                                      | 18.74          | 18.74 | 2.76                  |            | 19.81          | 19.81 | 2.45                  |            | 20.78          | 20.78 | 2.15                  |            | 21.79          | 21.79 | 1.88                  |            | 22.78          | 22.78 | 1.63                  | 23.74     | 23.74 | 1.39  |
|                | 72<br>(22.2)  |                                                                                      | 23.36          | 13.70 | 2.85                  |            | 24.96          | 14.32 | 2.52                  |            | 26.39          | 14.88 | 2.20                  |            | 27.93          | 15.49 | 1.91                  |            | 29.44          | 16.09 | 1.63                  | 30.94     | 16.69 | 1.37  |
| 80<br>(26.7)   | 67<br>(19.4)  | 825                                                                                  | 21.24          | 17.45 | 2.81                  | 825        | 22.69          | 18.11 | 2.49                  | 825        | 24.00          | 18.72 | 2.18                  | 825        | 25.39          | 19.36 | 1.90                  | 825        | 26.76          | 19.99 | 1.63                  | 28.12     | 20.63 | 1.38  |
|                | 63<br>(17.2)  |                                                                                      | 19.96          | 19.96 | 2.78                  |            | 21.18          | 20.93 | 2.47                  |            | 22.35          | 21.63 | 2.17                  |            | 23.61          | 22.34 | 1.89                  |            | 24.86          | 23.02 | 1.63                  | 26.10     | 23.70 | 1.38  |
|                | 57<br>(13.9)  |                                                                                      | 19.93          | 19.93 | 2.78                  |            | 21.05          | 21.05 | 2.47                  |            | 22.07          | 22.07 | 2.16                  |            | 23.12          | 23.12 | 1.89                  |            | 24.16          | 24.16 | 1.63                  | 25.17     | 25.17 | 1.39  |
|                | STAGE 3       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |       |       |
|                | 72<br>(22.2)  |                                                                                      | 16.60          | 7.18  | 1.72                  |            | 17.75          | 7.59  | 1.53                  |            | 18.75          | 7.96  | 1.31                  |            | 19.88          | 8.37  | 1.12                  |            | 20.99          | 8.78  | 0.94                  | 22.08     | 9.18  | 0.77  |
| 75<br>(23.9)   | 67<br>(19.4)  | 650                                                                                  | 15.01          | 10.22 | 1.72                  | 650        | 16.06          | 10.66 | 1.53                  | 650        | 16.99          | 11.06 | 1.32                  | 650        | 18.00          | 11.49 | 1.14                  | 650        | 18.99          | 11.92 | 0.97                  | 19.97     | 12.34 | 0.81  |
|                | 63<br>(17.2)  |                                                                                      | 13.88          | 12.59 | 1.71                  |            | 14.82          | 13.06 | 1.54                  |            | 15.70          | 13.48 | 1.32                  |            | 16.62          | 13.94 | 1.15                  |            | 17.52          | 14.38 | 0.99                  | 18.40     | 14.82 | 0.84  |
|                | 57<br>(13.9)  |                                                                                      | 13.48          | 13.48 | 1.71                  |            | 14.25          | 14.25 | 1.54                  |            | 14.97          | 14.97 | 1.32                  |            | 15.70          | 15.70 | 1.16                  |            | 16.40          | 16.40 | 1.01                  | 17.10     | 17.10 | 0.86  |
|                | 72<br>(22.2)  |                                                                                      | 16.54          | 10.24 | 1.72                  |            | 17.69          | 10.68 | 1.53                  |            | 18.68          | 11.07 | 1.31                  |            | 19.81          | 11.51 | 1.12                  |            | 20.92          | 11.94 | 0.94                  | 22.01     | 12.37 | 0.77  |
|                | 67<br>(19.4)  |                                                                                      | 14.98          | 13.23 | 1.72                  |            | 16.01          | 13.70 | 1.53                  |            | 16.94          | 14.13 | 1.32                  |            | 17.95          | 14.59 | 1.14                  |            | 18.93          | 15.05 | 0.97                  | 19.91     | 15.50 | 0.81  |
| 80<br>(26.7)   | 63<br>(17.2)  | 650                                                                                  | 14.42          | 14.42 | 1.72                  | 650        | 15.24          | 15.24 | 1.53                  | 650        | 15.99          | 15.99 | 1.32                  | 650        | 16.77          | 16.77 | 1.15                  | 650        | 17.61          | 17.39 | 0.99                  | 18.46     | 17.89 | 0.83  |
|                | 57<br>(13.9)  |                                                                                      | 14.40          | 14.40 | 1.72                  |            | 15.22          | 15.22 | 1.53                  |            | 15.96          | 15.96 | 1.32                  |            | 16.74          | 16.74 | 1.15                  |            | 17.50          | 17.50 | 0.99                  | 18.23     | 18.23 | 0.84  |
|                | STAGE 1       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |       |       |
|                | 72<br>(22.2)  |                                                                                      | 14.01          | 6.30  | 1.38                  |            | 15.00          | 6.65  | 1.24                  |            | 9.25           | 4.60  | 0.54                  |            | 9.85           | 4.81  | 0.46                  |            | 10.45          | 5.01  | 0.37                  | 11.04     | 5.22  | 0.29  |
|                | 67<br>(19.4)  |                                                                                      | 12.64          | 9.35  | 1.39                  |            | 13.52          | 9.73  | 1.25                  |            | 8.32           | 7.38  | 0.55                  |            | 8.85           | 7.61  | 0.48                  |            | 9.37           | 7.84  | 0.40                  | 9.89      | 8.07  | 0.33  |
| 75<br>(23.9)   | 63<br>(17.2)  | 650                                                                                  | 11.71          | 11.62 | 1.39                  | 650        | 12.49          | 12.06 | 1.26                  | 585        | 8.11           | 8.11  | 0.55                  | 585        | 8.56           | 8.56  | 0.48                  | 585        | 9.00           | 9.00  | 0.41                  | 9.43      | 9.43  | 0.34  |
|                | 57<br>(13.9)  |                                                                                      | 11.67          | 11.67 | 1.39                  |            | 12.35          | 12.35 | 1.26                  |            | 8.11           | 8.11  | 0.55                  |            | 8.55           | 8.55  | 0.48                  |            | 8.98           | 8.98  | 0.41                  | 9.42      | 9.42  | 0.34  |
|                | 72<br>(22.2)  |                                                                                      | 13.95          | 9.39  | 1.38                  |            | 14.94          | 9.76  | 1.24                  |            | 9.20           | 7.43  | 0.54                  |            | 9.80           | 7.66  | 0.45                  |            | 10.39          | 7.90  | 0.37                  | 10.98     | 8.13  | 0.29  |
|                | 67<br>(19.4)  |                                                                                      | 12.66          | 12.32 | 1.39                  |            | 13.52          | 12.75 | 1.25                  |            | 8.77           | 8.77  | 0.54                  |            | 9.26           | 9.26  | 0.47                  |            | 9.73           | 9.73  | 0.39                  | 10.19     | 10.19 | 0.31  |
|                | 63<br>(17.2)  |                                                                                      | 12.55          | 12.55 | 1.39                  |            | 13.28          | 13.28 | 1.26                  |            | 8.77           | 8.77  | 0.54                  |            | 9.25           | 9.25  | 0.47                  |            | 9.72           | 9.72  | 0.39                  | 10.18     | 10.18 | 0.31  |
| 80<br>(26.7)   | 57<br>(13.9)  | 650                                                                                  | 12.53          | 12.53 | 1.39                  | 650        | 13.26          | 13.26 | 1.26                  | 585        | 8.76           | 8.76  | 0.54                  | 585        | 9.24           | 9.24  | 0.47                  | 585        | 9.71           | 9.71  | 0.39                  | 10.17     | 10.17 | 0.31  |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 — Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 48

## 24VNA924B

|   | COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|---|----------------------|----------|-------|------------------|
| A | *FE4ANF002L          | 1.00     | 1.00  |                  |
|   | FE4AN(B,F)003L       | 1.00     | 1.00  |                  |
|   | FE4AN(B,F)005L       | 1.00     |       |                  |
|   | CAP**2414AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
|   | CAP**2417AL*         | 0.98     | 1.03  | 59*N*A060V17***4 |
|   | CAP**2417AL*         | 0.98     | 1.03  | 59*N*A060V17***4 |
| B | CAP**2417AL*         | 0.98     | 1.03  | 58CV(A,X)090-16  |
|   | CAP**3014AL*         | 0.98     | 0.98  | 56CV(A,X)070-12  |
|   | CAP**3017AL*         | 0.98     | 1.03  | 59*N*A060V17***4 |
|   | CAP**3017AL*         | 0.98     | 1.03  | 58CV(A,X)090-16  |
|   | CAP**3614AL*         | 1.00     | 1.00  | 56CV(A,X)070-12  |
|   | CAP**3617AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
| C | CAP**3617AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CAP**3617AL*         | 1.00     | 1.00  | 56CV(A,X)070-12  |
|   | CAP**3617AL*         | 1.00     | 1.00  | 56CV(A,X)090-16  |
|   | CAP**3621AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CAP**3621AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
|   | CAP**4221AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
| D | CAP**4221AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CAP**4221AL*         | 1.00     | 1.00  | 56CV(A,X)090-16  |
|   | CAP**4817AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CAP**4817AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CAP**4817AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CAP**4817AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
| E | CAP**4821AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
|   | CAP**4821AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CAP**4821AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*3117AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CNPV*3117AL*         | 1.00     | 1.00  | 56CV(A,X)070-12  |
|   | CNPV*3117AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
| F | CNPV*3617AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*3617AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*4221AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*4221AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*4221AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
|   | CNPV*4221AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
| G | CNPV*3821AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*3821AL*         | 1.00     | 1.00  | 56CV(A,X)090-16  |
|   | CNPV*3717AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CNPV*3717AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CNPV*4217AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*4217AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
| H | CNPV*4221AL*         | 1.00     | 1.05  | 59*N*A060V17***4 |
|   | CNPV*4221AL*         | 1.00     | 1.00  | 56CV(A,X)090-16  |
|   | CNPV*4821AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CNPV*4821AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CSPH*3612AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
|   | CSPH*3612AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
| I | CSPH*3612AL*         | 1.00     | 1.00  | 58CV(A,X)070-12  |
|   | CSPH*3612AL*         | 1.00     | 1.00  | 56CV(A,X)090-16  |
|   | CSPH*4212AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CSPH*4212AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CSPH*4212AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |
|   | CSPH*4212AL*         | 1.00     | 1.00  | 59*N*A060V17***4 |

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| CSPH*4212AL*         | 1.00     | 1.00  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
| CSPH*4812AL*         | 1.00     | 1.00  | 59*N*AO60V17**14 |
| CSPH*4812AL*         | 1.00     | 1.00  | 59*N*AO60V17**14 |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |       |                  | Furnace Model |
|----------------------------------|-----------------|-------|----------------|-------|-------|------------------|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Power |                  |               |
| *FVACNF002L                      | 1.00            | 1.00  | 1.00           | 1.00  | 1.00  |                  |               |
| FV4CNB/F003L                     | 1.04            | 0.95  | 0.99           | 0.98  |       |                  |               |
| FV4CNF002L                       | 1.03            | 0.94  | 1.00           | 1.00  | 1.00  |                  |               |
| CAP**24144L*                     | 1.03            | 0.99  | 1.08           | 1.16  |       | 59*P2A040E14**12 |               |
| CAP**24144L*                     | 1.03            | 0.93  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CAP**24144L*                     | 1.02            | 1.02  | 1.07           | 1.19  | 1.19  | 59*P5A040E14**10 |               |
| CAP**24144L*                     | 1.02            | 0.97  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CAP**24144L*                     | 1.02            | 0.92  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CAP**24174L*                     | 1.02            | 0.97  | 1.08           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CAP**24174L*                     | 1.02            | 0.97  | 1.07           | 1.15  | 1.15  | 59*P2A040E17**12 |               |
| CAP**24174L*                     | 1.03            | 0.94  | 1.10           | 1.14  | 1.14  | 59*P2A060E14**12 |               |
| CAP**24174L*                     | 1.02            | 1.02  | 1.07           | 1.17  | 1.17  | 59*P5A040E14**10 |               |
| CAP**24174L*                     | 1.01            | 0.96  | 1.07           | 1.17  | 1.17  | 59*P5A040E17**12 |               |
| CAP**24174L*                     | 1.03            | 0.98  | 1.09           | 1.16  | 1.16  | 59PH*045-08      |               |
| CAP**24174L*                     | 1.03            | 0.93  | 1.08           | 1.10  | 1.10  | 58CTW045-12      |               |
| CAP**24174L*                     | 1.03            | 0.93  | 1.11           | 1.13  | 1.13  | 58CTW070-16      |               |
| CAP**30144L*                     | 1.03            | 0.98  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CAP**30144L*                     | 1.04            | 0.95  | 1.11           | 1.16  | 1.16  | 59*P2A060E14**12 |               |
| CAP**30144L*                     | 1.03            | 1.03  | 1.07           | 1.18  | 1.18  | 59*P5A040E14**10 |               |
| CAP**30174L*                     | 1.02            | 0.97  | 1.07           | 1.17  | 1.17  | 59*P5A040E17**12 |               |
| CAP**30174L*                     | 1.03            | 0.94  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CAP**30144L*                     | 1.03            | 0.94  | 1.10           | 1.13  | 1.13  | 58CTW045-12      |               |
| CAP**30174L*                     | 1.03            | 0.99  | 1.08           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CAP**30174L*                     | 1.03            | 0.99  | 1.08           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CAP**30174L*                     | 1.04            | 0.95  | 1.12           | 1.16  | 1.16  | 59*P2A060E14**12 |               |
| CAP**30174L*                     | 1.03            | 1.03  | 1.07           | 1.18  | 1.18  | 59*P5A040E14**10 |               |
| CAP**30174L*                     | 1.02            | 0.97  | 1.07           | 1.17  | 1.17  | 59*P5A040E17**12 |               |
| CAP**30174L*                     | 1.03            | 0.94  | 1.09           | 1.15  | 1.15  | 59PH*045-08      |               |
| CAP**30174L*                     | 1.03            | 0.94  | 1.11           | 1.13  | 1.13  | 58CTW045-12      |               |
| CAP**30174L*                     | 1.04            | 0.95  | 1.11           | 1.12  | 1.12  | 58CTW070-16      |               |
| CAP**30174L*                     | 1.03            | 1.03  | 1.08           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.04            | 0.99  | 1.11           | 1.17  | 1.17  | 59*P2A060E17**14 |               |
| CNP**24174L*                     | 1.04            | 0.99  | 1.10           | 1.14  | 1.14  | 59*P2A080E17**16 |               |
| CNP**24174L*                     | 1.03            | 1.03  | 1.09           | 1.11  | 1.11  | 58CTW070-16      |               |
| CNP**30174L*                     | 1.03            | 1.03  | 1.08           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**30174L*                     | 1.02            | 1.02  | 1.07           | 1.17  | 1.17  | 59*P5A040E17**12 |               |
| CNP**30174L*                     | 1.04            | 0.99  | 1.11           | 1.12  | 1.12  | 58CTW070-16      |               |
| CNP**30174L*                     | 1.06            | 1.01  | 1.09           | 1.14  | 1.14  | 59*P2A040E17**12 |               |
| CNP**31174L*                     | 1.04            | 0.99  | 1.09           | 1.16  | 1.16  | 59*P5A040E17**12 |               |
| CNP**31174L*                     | 1.07            | 0.97  | 1.12           | 1.10  | 1.10  | 58CTW070-16      |               |
| CNP**24144L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24144L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24144L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24144L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24144L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E14**10 |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  | 59*P2A040E17**12 |               |
| CNP**24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 1.13  | 59*P2A060E14**12 |               |
| CNP**24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 1.20  | 59*P5A040E14**10 |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 1.15  | 59PH*045-08      |               |
| CNP**24174L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 1.11  | 58CTW045-12      |               |
| CNP**24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 1.16  |                  |               |

|  | 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |       | Furnace Model   |
|--|----------------------------------|-----------------|-------|----------------|-------|-----------------|
|  | Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power |                 |
|  | CNPV*2417AL*                     | 1.01            | 0.96  | 1.08           | 1.11  | 58CTW045-12     |
|  | CNPV*2417AL*                     | 1.01            | 0.96  | 1.08           | 1.11  | 58CTW070-16     |
|  | CNPV*3014AL*                     | 1.02            | 0.97  | 1.07           | 1.15  | 59P2A040E14**10 |
|  | CNPV*3014AL*                     | 1.03            | 0.99  | 1.11           | 1.16  | 59P2A060E14**12 |
|  | CNPV*3014AL*                     | 1.03            | 1.03  | 1.07           | 1.19  | 59P5A040E14**10 |
|  | CNPV*3014AL*                     | 1.03            | 0.98  | 1.08           | 1.15  | 58PH*045-08     |
|  | CNPV*3014AL*                     | 1.03            | 0.98  | 1.10           | 1.13  | 58CTW045-12     |
|  | CNPV*3017AL*                     | 1.03            | 0.98  | 1.08           | 1.15  | 59P2A040E14**12 |
|  | CNPV*3017AL*                     | 1.03            | 0.98  | 1.08           | 1.16  | 59P2A040E17**10 |
|  | CNPV*3017AL*                     | 1.03            | 0.94  | 1.12           | 1.16  | 59P2A060E14**12 |
|  | CNPV*3017AL*                     | 1.03            | 0.96  | 1.07           | 1.18  | 59P5A040E14**10 |
|  | CNPV*3017AL*                     | 1.01            | 0.93  | 1.07           | 1.17  | 59P5A040E17**12 |
|  | CNPV*3017AL*                     | 1.03            | 0.99  | 1.09           | 1.15  | 58PH*045-08     |
|  | CNPV*3017AL*                     | 1.03            | 0.93  | 1.11           | 1.13  | 58CTW045-12     |
|  | CNPV*3017AL*                     | 1.03            | 0.94  | 1.11           | 1.12  | 58CTW070-16     |
|  | CNPV*3117AL*                     | 1.05            | 0.96  | 1.11           | 1.16  | 59P2A040E14**10 |
|  | CNPV*3117AL*                     | 1.04            | 0.99  | 1.09           | 1.15  | 59P2A040E17**12 |
|  | CNPV*3117AL*                     | 1.06            | 0.96  | 1.13           | 1.14  | 59P2A060E14**12 |
|  | CNPV*3117AL*                     | 1.05            | 1.05  | 1.08           | 1.16  | 59P5A040E14**10 |
|  | CNPV*3117AL*                     | 1.03            | 0.99  | 1.09           | 1.16  | 59P5A040E17**12 |
|  | CNPV*317AL*                      | 1.05            | 0.96  | 1.12           | 1.15  | 58PH*045-08     |
|  | CNPV*317AL*                      | 1.06            | 0.96  | 1.12           | 1.11  | 58CTW045-12     |
|  | CNPV*317AL*                      | 1.07            | 0.97  | 1.12           | 1.10  | 58CTW070-16     |
|  | CSPH*2412AL*                     | 1.04            | 0.99  | 1.10           | 1.27  | 59P2A040E14**10 |
|  | CSPH*2412AL*                     | 1.04            | 0.99  | 1.10           | 1.28  | 59P2A040E17**12 |
|  | CSPH*2412AL*                     | 1.03            | 0.94  | 1.09           | 1.13  | 59P2A060E14**12 |
|  | CSPH*2412AL*                     | 1.06            | 0.96  | 1.13           | 1.19  | 59P2A060E17**14 |
|  | CSPH*2412AL*                     | 1.05            | 0.96  | 1.12           | 1.16  | 59P2A080E17**16 |
|  | CSPH*2412AL*                     | 1.03            | 1.03  | 1.07           | 1.19  | 59P5A040E17**12 |
|  | CSPH*2412AL*                     | 1.04            | 1.04  | 1.10           | 1.26  | 59P5A040E17**12 |
|  | CSPH*2412AL*                     | 1.05            | 1.00  | 1.10           | 1.20  | 59P5A060E17**14 |
|  | CSPH*2412AL*                     | 1.05            | 1.00  | 1.09           | 1.11  | 58CTW070-16     |
|  | CSPH*2412AL*                     | 1.05            | 0.96  | 1.13           | 1.19  | 58CTW090-16     |
|  | CSPH*3012AL*                     | 1.05            | 1.00  | 1.09           | 1.15  | 59P2A040E14**10 |
|  | CSPH*3012AL*                     | 1.08            | 1.03  | 1.12           | 1.19  | 59P2A060E14**12 |
|  | CSPH*3012AL*                     | 1.03            | 1.03  | 1.08           | 1.19  | 59P5A040E17**10 |
|  | CSPH*3012AL*                     | 1.03            | 0.98  | 1.08           | 1.16  | 59P5A040E17**12 |
|  | CSPH*3012AL*                     | 1.03            | 0.94  | 1.11           | 1.12  | 58CTW045-12     |
|  | CSPH*3012AL*                     | 1.04            | 0.95  | 1.11           | 1.12  | 58CTW070-16     |
|  | CSPH*3012AL*                     | 1.06            | 0.96  | 1.14           | 1.17  | 58CTW090-16     |

See notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>° F (° C) | EVA.<br>AIR  | 24VNA25/FE4AHF05 Efficiency Mode<br>Condenser Entering Air Temperature ° F (° C) |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |
|------------------|--------------|----------------------------------------------------------------------------------|-------------------------|-------|-----------------------|------------|-------------------------|-------|-----------------------|------------|-------------------------|-------|-----------------------|------------|-------------------------|-------|-----------------------|------------|-------------------------|-------|-----------------------|------------|-------------------------|-------|-----------------------|
|                  |              | 115 (46.1)                                                                       |                         |       |                       | 105 (40.5) |                         |       |                       | 95 (35)    |                         |       |                       | 85 (29.4)  |                         |       |                       | 75 (23.9)  |                         |       |                       | 65 (18.3)  |                         |       |                       |
|                  |              | ID<br>SCFM                                                                       | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh<br>Total | Sens† | Total<br>Sys.<br>KW** |
| 75<br>(23.9)     | 72<br>(22.2) | 825                                                                              | 23.68                   | 9.99  | 2.51                  | 825        | 25.12                   | 10.51 | 2.21                  | 825        | 26.43                   | 11.00 | 1.90                  | 825        | 27.77                   | 11.50 | 1.62                  | 825        | 29.08                   | 11.99 | 1.34                  | 825        | 30.34                   | 12.47 | 1.07                  |
|                  | 67<br>(19.4) |                                                                                  | 21.55                   | 13.82 | 2.50                  |            | 22.88                   | 14.39 | 2.21                  |            | 24.10                   | 14.93 | 1.92                  |            | 25.35                   | 15.48 | 1.65                  |            | 26.55                   | 16.01 | 1.39                  |            | 27.72                   | 16.54 | 1.13                  |
|                  | 63<br>(17.2) |                                                                                  | 19.97                   | 16.81 | 2.49                  |            | 21.22                   | 17.43 | 2.22                  |            | 22.38                   | 18.00 | 1.93                  |            | 23.54                   | 18.59 | 1.67                  |            | 24.67                   | 19.16 | 1.42                  |            | 25.77                   | 19.72 | 1.17                  |
|                  | 57<br>(13.9) |                                                                                  | 18.96                   | 18.96 | 2.48                  |            | 19.97                   | 19.97 | 2.21                  |            | 20.91                   | 20.91 | 1.94                  |            | 21.84                   | 21.84 | 1.69                  |            | 22.75                   | 22.75 | 1.45                  |            | 23.62                   | 23.62 | 1.21                  |
|                  | 72<br>(22.2) |                                                                                  | 23.52                   | 13.77 | 2.50                  |            | 24.94                   | 14.33 | 2.20                  |            | 26.25                   | 14.85 | 1.90                  |            | 27.59                   | 15.38 | 1.61                  |            | 28.89                   | 15.91 | 1.34                  |            | 30.15                   | 16.42 | 1.07                  |
| 80<br>(26.7)     | 67<br>(19.4) | 825                                                                              | 21.46                   | 17.56 | 2.50                  | 825        | 22.78                   | 18.18 | 2.21                  | 825        | 24.00                   | 18.75 | 1.92                  | 825        | 25.24                   | 19.33 | 1.65                  | 825        | 26.45                   | 19.90 | 1.39                  | 825        | 27.61                   | 20.46 | 1.13                  |
|                  | 63<br>(17.2) |                                                                                  | 20.19                   | 20.19 | 2.49                  |            | 21.30                   | 21.10 | 2.22                  |            | 22.43                   | 21.76 | 1.93                  |            | 23.57                   | 22.40 | 1.67                  |            | 24.68                   | 23.02 | 1.42                  |            | 25.77                   | 23.62 | 1.17                  |
|                  | 57<br>(13.9) |                                                                                  | 20.15                   | 20.15 | 2.49                  |            | 21.20                   | 21.20 | 2.22                  |            | 22.18                   | 22.18 | 1.93                  |            | 23.15                   | 23.15 | 1.67                  |            | 24.09                   | 24.09 | 1.43                  |            | 25.00                   | 25.00 | 1.19                  |
|                  | 72<br>(22.2) |                                                                                  | 15.55                   | 6.67  | 1.25                  |            | 16.54                   | 7.02  | 1.17                  |            | 17.29                   | 7.30  | 1.03                  |            | 18.23                   | 7.64  | 0.91                  |            | 19.14                   | 7.98  | 0.77                  |            | 20.05                   | 8.32  | 0.61                  |
| 75<br>(23.9)     | 67<br>(19.4) | 650                                                                              | 14.11                   | 9.43  | 1.25                  | 650        | 15.02                   | 9.82  | 1.18                  | 650        | 15.76                   | 10.15 | 1.05                  | 650        | 16.63                   | 10.52 | 0.95                  | 650        | 17.47                   | 10.89 | 0.82                  | 650        | 18.29                   | 11.25 | 0.67                  |
|                  | 63<br>(17.2) |                                                                                  | 13.09                   | 11.60 | 1.25                  |            | 13.94                   | 12.02 | 1.19                  |            | 14.67                   | 12.38 | 1.06                  |            | 15.47                   | 12.78 | 0.97                  |            | 16.26                   | 13.17 | 0.85                  |            | 17.02                   | 13.56 | 0.71                  |
|                  | 57<br>(13.9) |                                                                                  | 12.65                   | 12.65 | 1.25                  |            | 13.36                   | 13.36 | 1.20                  |            | 13.97                   | 13.97 | 1.07                  |            | 14.62                   | 14.62 | 0.98                  |            | 15.26                   | 15.26 | 0.87                  |            | 15.89                   | 15.89 | 0.75                  |
|                  | 72<br>(22.2) |                                                                                  | 15.43                   | 9.41  | 1.24                  |            | 16.40                   | 9.79  | 1.17                  |            | 17.14                   | 10.08 | 1.03                  |            | 18.08                   | 10.45 | 0.91                  |            | 18.99                   | 10.81 | 0.77                  |            | 19.94                   | 11.19 | 0.61                  |
|                  | 67<br>(19.4) |                                                                                  | 14.07                   | 12.14 | 1.25                  |            | 14.97                   | 12.56 | 1.18                  |            | 15.70                   | 12.91 | 1.05                  |            | 16.56                   | 13.31 | 0.94                  |            | 17.39                   | 13.70 | 0.82                  |            | 18.21                   | 14.09 | 0.67                  |
| 80<br>(26.7)     | 63<br>(17.2) | 650                                                                              | 13.49                   | 13.49 | 1.25                  | 650        | 14.23                   | 14.23 | 1.19                  | 650        | 14.84                   | 14.84 | 1.06                  | 650        | 15.54                   | 15.49 | 0.96                  | 650        | 16.30                   | 15.95 | 0.84                  | 650        | 17.05                   | 16.38 | 0.71                  |
|                  | 57<br>(13.9) |                                                                                  | 13.47                   | 13.47 | 1.25                  |            | 14.20                   | 14.20 | 1.19                  |            | 14.81                   | 14.81 | 1.06                  |            | 15.50                   | 15.50 | 0.96                  |            | 16.17                   | 16.17 | 0.85                  |            | 16.81                   | 16.81 | 0.72                  |
|                  | 72<br>(22.2) |                                                                                  | 12.12                   | 5.39  | 0.73                  |            | 12.92                   | 5.68  | 0.75                  |            | 10.55                   | 4.66  | 0.46                  |            | 11.18                   | 4.89  | 0.44                  |            | 11.84                   | 5.13  | 0.39                  |            | 12.52                   | 5.37  | 0.28                  |
|                  | 67<br>(19.4) |                                                                                  | 10.98                   | 7.95  | 0.74                  |            | 11.73                   | 8.27  | 0.77                  |            | 9.58                    | 6.85  | 0.47                  |            | 10.16                   | 7.10  | 0.47                  |            | 10.74                   | 7.35  | 0.43                  |            | 11.36                   | 7.61  | 0.34                  |
| 75<br>(23.9)     | 63<br>(17.2) | 650                                                                              | 10.22                   | 9.94  | 0.74                  | 650        | 10.91                   | 10.29 | 0.77                  | 650        | 8.93                    | 8.56  | 0.49                  | 650        | 9.46                    | 8.83  | 0.49                  | 650        | 10.00                   | 9.10  | 0.46                  | 650        | 10.55                   | 9.37  | 0.38                  |
|                  | 57<br>(13.9) |                                                                                  | 10.14                   | 10.14 | 0.74                  |            | 10.74                   | 10.74 | 0.78                  |            | 8.82                    | 8.82  | 0.49                  |            | 9.29                    | 9.29  | 0.50                  |            | 9.75                    | 9.75  | 0.47                  |            | 10.21                   | 10.21 | 0.40                  |
|                  | 72<br>(22.2) |                                                                                  | 11.99                   | 7.94  | 0.73                  |            | 12.79                   | 8.25  | 0.75                  |            | 10.41                   | 6.81  | 0.46                  |            | 11.06                   | 7.06  | 0.44                  |            | 11.73                   | 7.32  | 0.38                  |            | 12.41                   | 7.59  | 0.28                  |
|                  | 67<br>(19.4) |                                                                                  | 10.97                   | 10.45 | 0.74                  |            | 11.70                   | 10.80 | 0.76                  |            | 9.55                    | 8.98  | 0.47                  |            | 10.13                   | 9.25  | 0.47                  |            | 10.71                   | 9.53  | 0.43                  |            | 11.32                   | 9.81  | 0.34                  |
|                  | 63<br>(17.2) |                                                                                  | 10.83                   | 10.83 | 0.74                  |            | 11.46                   | 11.46 | 0.77                  |            | 9.40                    | 9.40  | 0.48                  |            | 9.89                    | 9.89  | 0.48                  |            | 10.37                   | 10.37 | 0.44                  |            | 10.87                   | 10.87 | 0.36                  |
| 80<br>(26.7)     | 57<br>(13.9) | 650                                                                              | 10.82                   | 10.82 | 0.74                  | 650        | 11.44                   | 11.44 | 0.77                  | 650        | 9.39                    | 9.39  | 0.48                  | 650        | 9.87                    | 9.87  | 0.48                  | 650        | 10.35                   | 10.35 | 0.44                  | 650        | 10.85                   | 10.85 | 0.36                  |
|                  | 72<br>(22.2) |                                                                                  | 12.12                   | 5.39  | 0.73                  |            | 12.92                   | 5.68  | 0.75                  |            | 10.55                   | 4.66  | 0.46                  |            | 11.18                   | 4.89  | 0.44                  |            | 11.84                   | 5.13  | 0.39                  |            | 12.52                   | 5.37  | 0.28                  |
|                  | 67<br>(19.4) |                                                                                  | 10.98                   | 7.95  | 0.74                  |            | 11.73                   | 8.27  | 0.77                  |            | 9.58                    | 6.85  | 0.47                  |            | 10.16                   | 7.10  | 0.47                  |            | 10.74                   | 7.35  | 0.43                  |            | 11.36                   | 7.61  | 0.34                  |
|                  | 63<br>(17.2) |                                                                                  | 10.22                   | 9.94  | 0.74                  |            | 10.91                   | 10.29 | 0.77                  |            | 8.93                    | 8.56  | 0.49                  |            | 9.46                    | 8.83  | 0.49                  |            | 10.00                   | 9.10  | 0.46                  |            | 10.55                   | 9.37  | 0.38                  |
| 75<br>(23.9)     | 57<br>(13.9) | 650                                                                              | 10.14                   | 10.14 | 0.74                  | 650        | 10.74                   | 10.74 | 0.78                  | 650        | 8.82                    | 8.82  | 0.49                  | 650        | 9.29                    | 9.29  | 0.50                  | 650        | 9.75                    | 9.75  | 0.47                  | 650        | 10.21                   | 10.21 | 0.40                  |
|                  | 72<br>(22.2) |                                                                                  | 11.99                   | 7.94  | 0.73                  |            | 12.79                   | 8.25  | 0.75                  |            | 10.41                   | 6.81  | 0.46                  |            | 11.06                   | 7.06  | 0.44                  |            | 11.73                   | 7.32  | 0.38                  |            | 12.41                   | 7.59  | 0.28                  |
|                  | 67<br>(19.4) |                                                                                  | 10.97                   | 10.45 | 0.74                  |            | 11.70                   | 10.80 | 0.76                  |            | 9.55                    | 8.98  | 0.47                  |            | 10.13                   | 9.25  | 0.47                  |            | 10.71                   | 9.53  | 0.43                  |            | 11.32                   | 9.81  | 0.34                  |
|                  | 63<br>(17.2) |                                                                                  | 10.83                   | 10.83 | 0.74                  |            | 11.46                   | 11.46 | 0.77                  |            | 9.40                    | 9.40  | 0.48                  |            | 9.89                    | 9.89  | 0.48                  |            | 10.37                   | 10.37 | 0.44                  |            | 10.87                   | 10.87 | 0.36                  |
|                  | 57<br>(13.9) |                                                                                  | 10.82                   | 10.82 | 0.74                  |            | 11.44                   | 11.44 | 0.77                  |            | 9.39                    | 9.39  | 0.48                  |            | 9.87                    | 9.87  | 0.48                  |            | 10.35                   | 10.35 | 0.44                  |            | 10.85                   | 10.85 | 0.36                  |
| STAGE 1          |              |                                                                                  |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |
| 75<br>(23.9)     | 72<br>(22.2) | 650                                                                              | 12.12                   | 5.39  | 0.73                  | 650        | 12.92                   | 5.68  | 0.75                  | 650        | 10.55                   | 4.66  | 0.46                  | 650        | 11.18                   | 4.89  | 0.44                  | 650        | 11.84                   | 5.13  | 0.39                  | 650        | 12.52                   | 5.37  | 0.28                  |
|                  | 67<br>(19.4) |                                                                                  | 10.98                   | 7.95  | 0.74                  |            | 11.73                   | 8.27  | 0.77                  |            | 9.58                    | 6.85  | 0.47                  |            | 10.16                   | 7.10  | 0.47                  |            | 10.74                   | 7.35  | 0.43                  |            | 11.36                   | 7.61  | 0.34                  |
|                  | 63<br>(17.2) |                                                                                  | 10.22                   | 9.94  | 0.74                  |            | 10.91                   | 10.29 | 0.77                  |            | 8.93                    | 8.56  | 0.49                  |            | 9.46                    | 8.83  | 0.49                  |            | 10.00                   | 9.10  | 0.46                  |            | 10.55                   | 9.37  | 0.38                  |
|                  | 57<br>(13.9) |                                                                                  | 10.14                   | 10.14 | 0.74                  |            | 10.74                   | 10.74 | 0.78                  |            | 8.82                    | 8.82  | 0.49                  |            | 9.29                    | 9.29  | 0.50                  |            | 9.75                    | 9.75  | 0.47                  |            | 10.21                   | 10.21 | 0.40                  |
|                  | 72<br>(22.2) |                                                                                  | 11.99                   | 7.94  | 0.73                  |            | 12.79                   | 8.25  | 0.75                  |            | 10.41                   | 6.81  | 0.46                  |            | 11.06                   | 7.06  | 0.44                  |            | 11.73                   | 7.32  | 0.38                  |            | 12.41                   | 7.59  | 0.28                  |
| 80<br>(26.7)     | 67<br>(19.4) | 650                                                                              | 10.97                   | 10.45 | 0.74                  | 650        | 11.70                   | 10.80 | 0.76                  | 650        | 9.55                    | 8.98  | 0.47                  | 650        | 10.13                   | 9.25  | 0.47                  | 650        | 10.71                   | 9.53  | 0.43                  | 650        | 11.32                   | 9.81  | 0.34                  |
|                  | 63<br>(17.2) |                                                                                  | 10.83                   | 10.83 | 0.74                  |            | 11.46                   | 11.46 | 0.77                  |            | 9.40                    | 9.40  | 0.48                  |            | 9.89                    | 9.89  | 0.48                  |            | 10.37                   | 10.37 | 0.44                  |            | 10.87                   | 10.87 | 0.36                  |
|                  | 57<br>(13.9) |                                                                                  | 10.82                   | 10.82 | 0.74                  |            | 11.44                   | 11.44 | 0.77                  |            | 9.39                    | 9.39  | 0.48                  |            | 9.87                    | 9.87  | 0.48                  |            | 10.35                   | 10.35 | 0.44                  |            | 10.85                   | 10.85 | 0.36                  |
|                  | 72<br>(22.2) |                                                                                  | 12.12                   | 5.39  | 0.73                  |            | 12.92                   | 5.68  | 0.75                  |            | 10.55                   | 4.66  | 0.46                  |            | 11.18                   | 4.89  | 0.44                  |            | 11.84                   | 5.13  | 0.39                  |            | 12.52                   | 5.37  | 0.28                  |
| STAGE 3          |              |                                                                                  |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |
| 75<br>(23.9)     | 72<br>(22.2) | 650                                                                              | 15.55                   | 6.67  | 1.25                  | 650        | 16.54                   | 7.02  | 1.17                  | 650        | 17.29                   | 7.30  | 1.03                  | 650        | 18.23                   | 7.64  | 0.91                  | 650        | 19.14                   | 7.98  | 0.77                  | 650        | 20.05                   | 8.32  | 0.61                  |
|                  | 67<br>(19.4) |                                                                                  | 14.11                   | 9.43  | 1.25                  |            | 15.02                   | 9.82  | 1.18                  |            | 15.76                   | 10.15 | 1.05                  |            | 16.63                   | 10.52 | 0.95                  |            | 17.47                   | 10.89 | 0.82                  |            | 18.29                   | 11.25 | 0.67                  |
|                  | 63<br>(17.2) |                                                                                  | 13.09                   | 11.60 | 1.25                  |            | 13.94                   | 12.02 | 1.19                  |            | 14.67                   | 12.38 | 1.06                  |            | 15.47                   | 12.78 | 0.97                  |            | 16.26                   | 13.17 | 0.85                  |            | 17.02                   | 13.56 | 0.71                  |
|                  | 57<br>(13.9) |                                                                                  | 12.65                   | 12.65 | 1.25                  |            | 13.36                   | 13.36 | 1.20                  |            | 13.97                   | 13.97 | 1.07                  |            | 14.62                   | 14.62 | 0.98                  |            | 15.26                   | 15.26 | 0.87                  |            | 15.89                   | 15.89 | 0.75                  |
|                  | 72<br>(22.2) |                                                                                  | 15.43                   | 9.41  | 1.24                  |            | 16.40                   | 9.79  | 1.17                  |            | 17.14                   | 10.08 | 1.03                  |            | 18.08                   | 10.45 | 0.91                  |            | 18.99                   | 10.81 | 0.77                  |            | 19.94                   | 11.19 | 0.61                  |
| 80<br>(26.7)     | 67<br>(19.4) | 650                                                                              | 14.07                   | 12.14 | 1.25                  | 650        | 14.97                   | 12.56 | 1.18                  | 650        | 15.70                   | 12.91 | 1.05                  | 650        | 16.56                   | 13.31 | 0.94                  | 650        | 17.39                   | 13.70 | 0.82                  | 650        | 18.21                   | 14.09 | 0.67                  |
|                  | 63<br>(17.2) |                                                                                  | 13.49                   | 13.49 | 1.25                  |            | 14.23                   | 14.23 | 1.19                  |            | 14.84                   | 14.84 | 1.06                  |            | 15.54                   | 15.49 | 0.96                  |            | 16.30                   | 15.95 | 0.84                  |            | 17.05                   | 16.38 | 0.71                  |
|                  | 57<br>(13.9) |                                                                                  | 13.47                   | 13.47 | 1.25                  |            | 14.20                   | 14.20 | 1.19                  |            | 14.81                   | 14.81 | 1.06                  |            | 15.50                   | 15.50 | 0.96                  |            | 16.17                   | 16.17 | 0.85                  |            | 16.81                   | 16.81 | 0.72                  |
|                  | 72<br>(22.2) |                                                                                  | 12.12                   | 5.39  | 0.73                  |            | 12.92                   | 5.68  | 0.75                  |            | 10.55                   | 4.66  | 0.46                  |            | 11.18                   | 4.89  | 0.44                  |            | 11.84                   | 5.13  | 0.39                  |            | 12.52                   | 5.37  | 0.28                  |
| STAGE 5          |              |                                                                                  |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |            |                         |       |                       |
| 75<br>(23.9)     | 72<br>(22.2) | 825                                                                              | 23.68                   | 9.99  | 2.51                  | 825        | 25.12                   | 10.51 | 2.21                  | 825        | 26.43                   | 11.00 | 1.90                  | 825        | 27.77                   | 11.50 | 1.62                  | 825        | 29.08                   | 11.99 | 1.34                  | 825        | 30.34                   | 12.47 | 1.07                  |
|                  | 67<br>(19.4) |                                                                                  | 21.55                   | 13.82 | 2.50                  |            | 22.88                   | 14.39 | 2.21                  |            | 24.10                   | 14.93 | 1.92                  |            | 25.35                   | 15.48 | 1.65                  |            | 26.55                   | 16.01 | 1.39                  |            | 27.72                   | 16.54 | 1.13                  |
|                  | 63<br>(17.2) |                                                                                  | 19.97                   | 16.81 | 2.49                  |            | 21.22                   | 17.43 | 2.22                  |            | 22.38                   | 18.00 | 1.93                  |            | 23.54                   | 18.59 | 1.67                  |            | 24.67                   | 19.16 | 1.42                  |            | 25.77                   | 19.72 | 1.17                  |
|                  | 57<br>(13.9) |                                                                                  | 18.96                   | 18.96 | 2.48                  |            | 19.97                   | 19.97 | 2.21                  |            | 20.91                   | 20.91 | 1.94                  |            | 21.84                   | 21.84 | 1.69                  |            | 22.75                   | 22.75 | 1.45                  |            | 23.62                   | 23.62 | 1.21                  |
|                  | 72<br>(22.2) |                                                                                  | 23.52                   | 13.77 | 2.50                  |            | 24.94                   | 14.33 | 2.20                  |            | 26.25                   | 14.85 | 1.90                  |            | 27.59                   | 15.38 | 1.61                  |            | 28.8                    |       |                       |            |                         |       |                       |

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA925

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *FE4AN(B,F)005L      | 1.00     | 1.00  |                  |
| FE4AN(B,F)003L       | 0.96     | 0.98  |                  |
| FE4ANB006L           | 0.98     | 1.07  |                  |
| FE4ANF002L           | 0.96     | 0.98  |                  |
| CAP**3614AL*         | 0.98     | 1.01  | 58CV(A,X)070-12  |
| CAP**3617AL*         | 0.98     | 1.01  | 58CV(A,X)070-12  |
| CNPH*3617AL*         | 0.98     | 1.02  | 58CV(A,X)070-12  |
| CNPV*3617AL*         | 0.97     | 0.99  | 58CV(A,X)070-12  |
| CNPV*3717AL*         | 0.96     | 1.00  | 58CV(A,X)070-12  |
| CNPV*4217AL*         | 0.98     | 0.98  | 58CV(A,X)070-12  |
| CSPH*3612AL*         | 1.00     | 1.02  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 1.00     | 1.02  | 58CV(A,X)070-12  |
| CAP**3617AL*         | 0.98     | 1.01  | 58CV(A,X)090-16  |
| CAP**3621AL*         | 0.98     | 1.01  | 58CV(A,X)090-16  |
| CAP**4217AL*         | 0.99     | 0.99  | 58CV(A,X)090-16  |
| CNPH*3617AL*         | 0.98     | 1.01  | 58CV(A,X)090-16  |
| CNPH*4217AL*         | 0.99     | 1.02  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.97     | 0.99  | 58CV(A,X)090-16  |
| CNPV*3621AL*         | 0.97     | 0.99  | 58CV(A,X)090-16  |
| CNPV*3717AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.96     | 0.98  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CSPH*3612AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
| CSPH*4212AL*         | 1.01     | 1.01  | 58CV(A,X)090-16  |
| CAP**3617AL*         | 0.98     | 1.02  | 59"N*A060V17**14 |
| CAP**3621AL*         | 0.98     | 1.01  | 59"N*A060V17**14 |
| CAP**4217AL*         | 0.98     | 1.01  | 59"N*A060V17**14 |
| CNPH*3617AL*         | 0.96     | 1.11  | 59"N*A060V17**14 |
| CNPH*4217AL*         | 0.98     | 1.12  | 59"N*A060V17**14 |
| CNPV*3617AL*         | 0.94     | 1.02  | 59"N*A060V17**14 |
| CNPV*3621AL*         | 0.94     | 1.02  | 59"N*A060V17**14 |
| CNPV*3717AL*         | 0.98     | 1.00  | 59"N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.03  | 59"N*A060V17**14 |
| CSPH*3612AL*         | 0.99     | 1.02  | 59"N*A060V17**14 |
| CSPH*4212AL*         | 1.00     | 1.02  | 59"N*A060V17**14 |
| CAP**3617AL*         | 0.98     | 1.01  | 59"N*A080V17**14 |
| CAP**3621AL*         | 0.98     | 1.01  | 59"N*A080V17**14 |
| CAP**4217AL*         | 0.99     | 1.02  | 59"N*A080V17**14 |
| CNPH*3617AL*         | 0.96     | 1.07  | 59"N*A080V17**14 |
| CNPH*4217AL*         | 0.99     | 1.08  | 59"N*A080V17**14 |
| CNPV*3617AL*         | 0.95     | 1.03  | 59"N*A080V17**14 |
| CNPV*3621AL*         | 0.95     | 0.99  | 59"N*A080V17**14 |
| CNPV*3717AL*         | 0.98     | 1.00  | 59"N*A080V17**14 |
| CNPV*4217AL*         | 0.98     | 1.00  | 59"N*A080V17**14 |
| CSPH*3612AL*         | 0.98     | 1.02  | 59"N*A080V17**14 |
| CSPH*4212AL*         | 1.00     | 1.02  | 59"N*A080V17**14 |
| CAP**3617AL*         | 0.98     | 1.02  | 59MN7A060V21**20 |
| CAP**3621AL*         | 0.99     | 1.02  | 59MN7A060V21**20 |
| CAP**4217AL*         | 0.99     | 1.02  | 59MN7A060V21**20 |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                | 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |
|----------------------------------|-----------------|-------|----------------|----------------------------------|-----------------|-------|----------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model                    | High Speed Cap. | Power | Low Speed Cap. |
| FV4CN(B,F)003L                   | 0.94            | 0.98  | 0.99           |                                  | 0.94            | 0.94  |                |
| FV4CNF002L                       | 0.94            | 0.98  | 1.00           | 58PH*045-08                      | 0.97            | 1.09  |                |
| CAP**2414AL*                     | 0.94            | 1.02  | 1.08           | 58PH*045-08                      | 1.12            | 1.12  |                |
| CAP**2417AL*                     | 0.94            | 1.02  | 1.09           | 58PH*045-08                      | 1.12            | 1.12  |                |
| CAP**3014AL*                     | 0.95            | 0.99  | 1.08           | 58PH*045-08                      | 1.11            | 1.11  |                |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.08           | 58PH*045-08                      | 1.12            | 1.12  |                |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.08           | 58PH*045-08                      | 1.12            | 1.12  |                |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 58PH*045-08                      | 1.11            | 1.11  |                |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.09           | 58PH*045-08                      | 1.11            | 1.11  |                |
| CNPV*3117AL*                     | 0.95            | 0.99  | 1.12           | 58PH*045-08                      | 1.11            | 1.11  |                |
| CAP**2414AL*                     | 0.94            | 0.97  | 1.08           | 58CTW045-12                      | 0.98            | 1.08  |                |
| CAP**2417AL*                     | 0.94            | 0.98  | 1.08           | 58CTW045-12                      | 1.07            | 1.07  |                |
| CAP**3014AL*                     | 0.93            | 0.96  | 1.10           | 58CTW045-12                      | 1.09            | 1.09  |                |
| CAP**3017AL*                     | 0.93            | 0.97  | 1.11           | 58CTW045-12                      | 1.09            | 1.09  |                |
| CNPV*2414AL*                     | 0.93            | 1.01  | 1.08           | 58CTW045-12                      | 1.07            | 1.07  |                |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.10           | 58CTW045-12                      | 1.09            | 1.09  |                |
| CNPV*3017AL*                     | 0.93            | 0.97  | 1.11           | 58CTW045-12                      | 1.09            | 1.09  |                |
| CNPV*3117AL*                     | 0.94            | 0.98  | 1.12           | 58CTW045-12                      | 1.06            | 1.06  |                |
| CSPH*3012AL*                     | 0.93            | 0.96  | 1.11           | 58CTW045-12                      | 1.08            | 1.08  |                |
| CAP**2417AL*                     | 0.93            | 0.96  | 1.11           | 58CTW070-16                      | 1.08            | 1.08  |                |
| CNPV*2417AL*                     | 0.93            | 0.97  | 1.11           | 58CTW070-16                      | 1.08            | 1.08  |                |
| CNPV*3017AL*                     | 0.96            | 1.04  | 1.09           | 58CTW070-16                      | 1.07            | 1.07  |                |
| CNPV*3117AL*                     | 0.93            | 1.01  | 1.11           | 58CTW070-16                      | 1.08            | 1.08  |                |
| CNPV*4217AL*                     | 0.95            | 0.99  | 1.12           | 58CTW070-16                      | 1.05            | 1.05  |                |
| CNPV*3017AL*                     | 0.93            | 0.97  | 1.11           | 58CTW070-16                      | 1.08            | 1.08  |                |
| CSPH*2412AL*                     | 0.97            | 1.05  | 1.09           | 58CTW070-16                      | 1.08            | 1.08  |                |
| CSPH*3012AL*                     | 0.93            | 0.97  | 1.11           | 58CTW070-16                      | 1.07            | 1.07  |                |
| CSPH*4212AL*                     | 0.94            | 0.98  | 1.13           | 58CTW090-16                      | 1.15            | 1.15  |                |
| CAP**3012AL*                     | 0.95            | 0.99  | 1.14           | 58CTW090-16                      | 1.12            | 1.12  |                |
| CAP**2414AL*                     | 0.95            | 1.03  | 1.08           | 59"P2A040E14**10                 | 1.13            | 1.13  |                |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.08           | 59"P2A040E14**10                 | 1.13            | 1.13  |                |
| CAP**3014AL*                     | 0.94            | 1.02  | 1.07           | 59"P2A040E14**10                 | 1.12            | 1.12  |                |
| CNPV*2414AL*                     | 0.93            | 1.01  | 1.07           | 59"P2A040E14**10                 | 1.13            | 1.13  |                |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.07           | 59"P2A040E14**10                 | 1.13            | 1.13  |                |
| CNPV*3014AL*                     | 0.94            | 1.02  | 1.07           | 59"P2A040E14**10                 | 1.12            | 1.12  |                |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 59"P2A040E14**10                 | 1.12            | 1.12  |                |
| CNPV*3117AL*                     | 0.96            | 1.04  | 1.11           | 59"P2A040E14**10                 | 1.11            | 1.11  |                |
| CSPH*3012AL*                     | 0.96            | 1.04  | 1.10           | 59"P2A040E14**10                 | 1.23            | 1.23  |                |
| CSPH*3012AL*                     | 0.97            | 1.05  | 1.09           | 59"P2A040E14**10                 | 1.11            | 1.11  |                |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.07           | 59"P2A040E17**12                 | 1.12            | 1.12  |                |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 59"P2A040E17**12                 | 1.13            | 1.13  |                |
| CNPV*3117AL*                     | 0.97            | 1.05  | 1.09           | 59"P2A040E17**12                 | 1.12            | 1.12  |                |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.07           | 59"P2A040E17**12                 | 1.13            | 1.13  |                |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 59"P2A040E17**12                 | 1.12            | 1.12  |                |
| CNPV*3117AL*                     | 0.97            | 1.05  | 1.09           | 59"P2A040E17**12                 | 1.10            | 1.10  |                |
| CSPH*2412AL*                     | 0.96            | 1.04  | 1.10           | 59"P2A040E17**12                 | 1.25            | 1.25  |                |
| CAP**2414AL*                     | 0.94            | 0.98  | 1.09           | 59"P2A060E14**12                 | 1.10            | 1.10  |                |
| CAP**2417AL*                     | 0.95            | 0.99  | 1.10           | 59"P2A060E14**12                 | 1.10            | 1.10  |                |
| CAP**3014AL*                     | 0.93            | 0.97  | 1.11           | 59"P2A060E14**12                 | 1.11            | 1.11  |                |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                | 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |
|----------------------------------|-----------------|-------|----------------|----------------------------------|-----------------|-------|----------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model                    | High Speed Cap. | Power | Low Speed Cap. |
| CAP**3017AL*                     | 0.94            | 0.98  | 1.12           | 59"P2A000E14**12                 | 1.11            | 1.11  |                |
| CNPV*2414AL*                     | 0.94            | 1.02  | 1.09           | 59"P2A000E14**12                 | 1.09            | 1.09  |                |
| CNPV*2417AL*                     | 0.94            | 1.02  | 1.09           | 59"P2A000E14**12                 | 1.09            | 1.09  |                |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.11           | 59"P2A000E14**12                 | 1.11            | 1.11  |                |
| CNPV*3017AL*                     | 0.94            | 0.98  | 1.12           | 59"P2A000E14**12                 | 1.11            | 1.11  |                |
| CNPV*3117AL*                     | 0.96            | 1.00  | 1.13           | 59"P2A000E14**12                 | 1.09            | 1.09  |                |
| CSPH*2412AL*                     | 0.95            | 0.99  | 1.09           | 59"P2A000E14**12                 | 1.10            | 1.10  |                |
| CSPH*3012AL*                     | 0.94            | 0.98  | 1.12           | 59"P2A000E14**12                 | 1.10            | 1.10  |                |
| CSPH*2412AL*                     | 0.96            | 1.04  | 1.11           | 59"P2A000E17**14                 | 1.13            | 1.13  |                |
| CSPH*2412AL*                     | 0.95            | 0.99  | 1.13           | 59"P2A000E17**14                 | 1.15            | 1.15  |                |
| CSPH*2417AL*                     | 0.96            | 1.04  | 1.10           | 59"P2A000E17**16                 | 1.10            | 1.10  |                |
| CSPH*2412AL*                     | 0.94            | 0.98  | 1.12           | 59"P2A000E17**16                 | 1.12            | 1.12  |                |
| CAP**2414AL*                     | 0.93            | 1.06  | 1.07           | 59"P5A040E14**10                 | 1.17            | 1.17  |                |
| CAP**2417AL*                     | 0.94            | 1.07  | 1.07           | 59"P5A040E14**10                 | 1.17            | 1.17  |                |
| CAP**3014AL*                     | 0.95            | 1.08  | 1.07           | 59"P5A040E14**10                 | 1.16            | 1.16  |                |
| CAP**3017AL*                     | 0.95            | 1.08  | 1.07           | 59"P5A040E14**10                 | 1.15            | 1.15  |                |
| CNPV*2414AL*                     | 0.93            | 1.11  | 1.07           | 59"P5A040E14**10                 | 1.17            | 1.17  |                |
| CNPV*2417AL*                     | 0.93            | 1.11  | 1.07           | 59"P5A040E14**10                 | 1.17            | 1.17  |                |
| CNPV*3014AL*                     | 0.95            | 1.08  | 1.07           | 59"P5A040E14**10                 | 1.16            | 1.16  |                |
| CNPV*3017AL*                     | 0.95            | 1.08  | 1.07           | 59"P5A040E14**10                 | 1.15            | 1.15  |                |
| CNPV*3117AL*                     | 0.98            | 1.11  | 1.08           | 59"P5A040E14**10                 | 1.13            | 1.13  |                |
| CSPH*2412AL*                     | 0.95            | 1.08  | 1.07           | 59"P5A040E14**10                 | 1.17            | 1.17  |                |
| CSPH*3012AL*                     | 0.95            | 1.08  | 1.08           | 59"P5A040E14**10                 | 1.15            | 1.15  |                |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.07           | 59"P5A040E17**12                 | 1.14            | 1.14  |                |
| CAP**3017AL*                     | 0.93            | 1.01  | 1.07           | 59"P5A040E17**12                 | 1.13            | 1.13  |                |
| CNPV*2417AL*                     | 0.94            | 1.12  | 1.08           | 59"P5A040E17**12                 | 1.15            | 1.15  |                |
| CNPV*3117AL*                     | 0.96            | 1.04  | 1.09           | 59"P5A040E17**12                 | 1.12            | 1.12  |                |
| CNPV*3017AL*                     | 0.92            | 1.04  | 1.07           | 59"P5A040E17**12                 | 1.14            | 1.14  |                |
| CNPV*3017AL*                     | 0.93            | 1.01  | 1.07           | 59"P5A040E17**12                 | 1.13            | 1.13  |                |
| CNPV*3117AL*                     | 0.96            | 1.04  | 1.09           | 59"P5A040E17**12                 | 1.12            | 1.12  |                |
| CSPH*2412AL*                     | 0.96            | 1.09  | 1.10           | 59"P5A040E17**12                 | 1.23            | 1.23  |                |
| CSPH*3012AL*                     | 0.93            | 1.01  | 1.08           | 59"P5A040E17**12                 | 1.10            | 1.10  |                |
| CNPV*2417AL*                     | 0.96            | 1.09  | 1.10           | 59"P5A040E17**14                 | 1.17            | 1.17  |                |
| CSPH*2412AL*                     | 0.97            | 1.05  | 1.10           | 59"P5A040E17**14                 | 1.16            | 1.16  |                |

See notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB °F<br>(°C) | EVA.P.<br>AIR | 24VNA936 / FE4ANF005 Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
|----------------|---------------|------------------------------------------------------------------------------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|---------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|-------|-------|
|                |               | 115 (46.1)                                                                         |                |       |                       |            | 105 (40.5)     |       |                       |            |                | 95 (35) |                       |            |                |       | 85 (29.4)             |            |                |       |                       | 75 (23.9)  |                |       |                       |            | 65 (18.3)      |       |                       |       |       |
|                |               | ID<br>SCFM                                                                         | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |         | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** |       |       |
|                |               |                                                                                    | Sens†          | Total |                       |            | Sens†          | Total |                       |            | Sens†          | Total   |                       |            | Sens†          | Total |                       |            | Sens†          | Total |                       |            | Sens†          | Total |                       |            | Sens†          | Total |                       | Sens† | Total |
| 75<br>(23.9)   | 72<br>(22.2)  | 1050                                                                               | 34.24          | 14.18 | 4.44                  | 3.89       | 36.41          | 14.99 | 3.89                  | 1050       | 38.29          | 15.70   | 3.36                  | 40.30      | 16.47          | 2.87  | 1050                  | 42.28      | 17.24          | 2.41  | 1050                  | 44.18      | 17.98          | 1.98  |                       |            |                |       |                       |       |       |
|                | 67<br>(19.4)  |                                                                                    | 31.38          | 19.07 | 4.38                  | 3.85       | 33.35          | 19.95 | 3.85                  |            | 35.13          | 20.75   | 3.34                  | 36.99      | 21.60          | 2.87  |                       | 38.79      | 22.42          | 2.43  |                       | 40.52      | 23.22          | 2.02  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 29.21          | 22.90 | 4.33                  | 3.81       | 31.07          | 23.84 | 3.81                  |            | 32.74          | 24.70   | 3.31                  | 34.48      | 25.59          | 2.86  |                       | 36.17      | 26.47          | 2.44  |                       | 37.79      | 27.32          | 2.04  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 27.05          | 27.05 | 4.27                  | 3.77       | 28.50          | 28.50 | 3.77                  |            | 29.85          | 29.85   | 3.28                  | 31.20      | 31.20          | 2.84  |                       | 32.65      | 32.25          | 2.44  |                       | 34.08      | 33.21          | 2.06  |                       |            |                |       |                       |       |       |
|                | 72<br>(22.2)  |                                                                                    | 34.04          | 18.92 | 4.44                  | 3.88       | 36.21          | 19.79 | 3.88                  |            | 38.09          | 20.56   | 3.35                  | 40.10      | 21.39          | 2.86  |                       | 42.08      | 22.22          | 2.41  |                       | 43.98      | 23.01          | 1.98  |                       |            |                |       |                       |       |       |
| 80<br>(26.7)   | 67<br>(19.4)  | 1050                                                                               | 31.25          | 23.78 | 4.38                  | 3.84       | 33.23          | 24.72 | 3.84                  | 1050       | 35.00          | 25.57   | 3.33                  | 36.86      | 26.47          | 2.86  | 1050                  | 38.66      | 27.35          | 2.42  | 1050                  | 40.39      | 28.21          | 2.02  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 29.21          | 27.55 | 4.33                  | 3.81       | 31.05          | 28.56 | 3.81                  |            | 32.70          | 29.48   | 3.31                  | 34.43      | 30.44          | 2.86  |                       | 36.11      | 31.38          | 2.43  |                       | 37.72      | 32.28          | 2.04  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 28.61          | 28.61 | 4.32                  | 3.80       | 30.14          | 30.14 | 3.80                  |            | 31.53          | 31.53   | 3.30                  | 32.95      | 32.95          | 2.85  |                       | 34.31      | 34.31          | 2.44  |                       | 35.64      | 35.64          | 2.05  |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
| 75<br>(23.9)   | 72<br>(22.2)  | 900                                                                                | 21.81          | 9.32  | 1.96                  | 1.83       | 23.25          | 9.85  | 1.83                  | 900        | 24.29          | 10.24   | 1.67                  | 25.66      | 10.75          | 1.50  | 900                   | 27.01      | 11.26          | 1.31  | 900                   | 28.33      | 11.75          | 1.10  |                       |            |                |       |                       |       |       |
|                | 67<br>(19.4)  |                                                                                    | 19.85          | 13.12 | 1.96                  | 1.84       | 21.18          | 13.71 | 1.84                  |            | 22.21          | 14.19   | 1.68                  | 23.48      | 14.77          | 1.52  |                       | 24.72      | 15.33          | 1.35  |                       | 25.94      | 15.89          | 1.15  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 18.41          | 16.08 | 1.95                  | 1.85       | 19.66          | 16.73 | 1.85                  |            | 20.68          | 17.29   | 1.68                  | 21.87      | 17.91          | 1.54  |                       | 23.02      | 18.53          | 1.37  |                       | 24.16      | 19.14          | 1.19  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 17.71          | 17.71 | 1.95                  | 1.85       | 18.75          | 18.75 | 1.85                  |            | 19.63          | 19.63   | 1.68                  | 20.61      | 20.61          | 1.54  |                       | 21.57      | 21.57          | 1.39  |                       | 22.50      | 22.50          | 1.22  |                       |            |                |       |                       |       |       |
|                | 72<br>(22.2)  |                                                                                    | 21.64          | 13.06 | 1.95                  | 1.83       | 23.07          | 13.65 | 1.83                  |            | 24.08          | 14.08   | 1.66                  | 25.46      | 14.65          | 1.49  |                       | 26.81      | 15.21          | 1.31  |                       | 28.13      | 15.76          | 1.10  |                       |            |                |       |                       |       |       |
| 80<br>(26.7)   | 67<br>(19.4)  | 900                                                                                | 19.77          | 16.83 | 1.95                  | 1.84       | 21.09          | 17.48 | 1.84                  | 900        | 22.11          | 18.01   | 1.67                  | 23.37      | 18.64          | 1.52  | 900                   | 24.60      | 19.26          | 1.35  | 900                   | 25.82      | 19.87          | 1.15  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 18.86          | 18.86 | 1.95                  | 1.84       | 19.95          | 19.95 | 1.84                  |            | 20.82          | 20.82   | 1.68                  | 21.94      | 21.67          | 1.53  |                       | 23.07      | 22.38          | 1.37  |                       | 24.19      | 23.06          | 1.19  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 18.83          | 18.83 | 1.95                  | 1.84       | 19.91          | 19.91 | 1.84                  |            | 20.79          | 20.79   | 1.68                  | 21.82      | 21.82          | 1.53  |                       | 22.82      | 22.82          | 1.37  |                       | 23.80      | 23.80          | 1.20  |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
| 75<br>(23.9)   | 72<br>(22.2)  | 800                                                                                | 14.74          | 6.58  | 0.98                  | 1.00       | 15.80          | 6.96  | 1.00                  | 800        | 10.82          | 4.81    | 0.48                  | 11.57      | 5.09           | 0.46  | 800                   | 12.38      | 5.38           | 0.39  | 800                   | 13.21      | 5.69           | 0.27  |                       |            |                |       |                       |       |       |
|                | 67<br>(19.4)  |                                                                                    | 13.36          | 9.71  | 0.98                  | 1.02       | 14.34          | 10.16 | 1.02                  |            | 9.83           | 7.10    | 0.49                  | 10.52      | 7.42           | 0.49  |                       | 11.24      | 7.76           | 0.44  |                       | 11.99      | 8.11           | 0.34  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 12.47          | 12.13 | 0.98                  | 1.03       | 13.37          | 12.65 | 1.03                  |            | 9.17           | 8.88    | 0.51                  | 9.81       | 9.25           | 0.51  |                       | 10.45      | 9.62           | 0.47  |                       | 11.13      | 10.00          | 0.38  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 12.37          | 12.37 | 0.98                  | 1.03       | 13.18          | 13.18 | 1.03                  |            | 9.09           | 9.09    | 0.51                  | 9.66       | 9.66           | 0.52  |                       | 10.22      | 10.22          | 0.48  |                       | 10.81      | 10.81          | 0.40  |                       |            |                |       |                       |       |       |
|                | 72<br>(22.2)  |                                                                                    | 14.58          | 9.69  | 0.97                  | 1.00       | 15.63          | 10.12 | 1.00                  |            | 10.67          | 7.06    | 0.47                  | 11.46      | 7.39           | 0.46  |                       | 12.27      | 7.73           | 0.39  |                       | 13.08      | 8.07           | 0.27  |                       |            |                |       |                       |       |       |
| 80<br>(26.7)   | 67<br>(19.4)  | 800                                                                                | 13.36          | 12.75 | 0.98                  | 1.02       | 14.32          | 13.27 | 1.02                  | 800        | 9.80           | 9.32    | 0.49                  | 10.49      | 9.70           | 0.49  | 800                   | 11.21      | 10.08          | 0.44  | 800                   | 11.95      | 10.47          | 0.34  |                       |            |                |       |                       |       |       |
|                | 63<br>(17.2)  |                                                                                    | 13.20          | 13.20 | 0.98                  | 1.02       | 14.04          | 14.04 | 1.02                  |            | 9.68           | 9.68    | 0.49                  | 10.28      | 10.28          | 0.49  |                       | 10.89      | 10.89          | 0.45  |                       | 11.52      | 11.52          | 0.36  |                       |            |                |       |                       |       |       |
|                | 57<br>(13.9)  |                                                                                    | 13.18          | 13.18 | 0.98                  | 1.02       | 14.02          | 14.02 | 1.02                  |            | 9.67           | 9.67    | 0.49                  | 10.26      | 10.26          | 0.49  |                       | 10.87      | 10.87          | 0.45  |                       | 11.50      | 11.50          | 0.36  |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |
|                |               |                                                                                    |                |       |                       |            |                |       |                       |            |                |         |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |       |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 — Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA936

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *FE4AN(B,F)005L      | 1.00     | 1.00  |                  |
| FE4AN(B,F)003L       | 0.97     | 0.97  |                  |
| FE4AN(B)006L         | 0.99     | 0.99  |                  |
| FE4ANF002L           | 0.96     | 1.01  |                  |
| CAP**3614AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CSPH*3612AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CAP**3617AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CAP**4817AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.95     | 1.00  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.95     | 1.00  | 58CV(A,X)090-16  |
| CNPV*3717AL*         | 0.97     | 0.97  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.97     | 0.97  | 58CV(A,X)090-16  |
| CNPV*4821AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CSPH*3612AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CSPH*4212AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CAP**3617AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V17**14 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*3612AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**3617AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V17**14 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*3612AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**3617AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V21**20 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V21**20 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CSPH*3612AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CAP**3617AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V21**20 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V21**20 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CSPH*3612AL*         | 0.97     | 1.02  | 59*N*A060V21**20 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CAP**3617AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V21**20 |

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| CAP**4821AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.06  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.06  | 59MN7A060V21**20 |
| CNPV*4321AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CNPV*3621AL*         | 0.95     | 1.00  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.95     | 1.00  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.01  | 59MN7A060V21**20 |
| CNPV*4324AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.01  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CNPV*4824AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CSPH*3612AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CSPH*4812AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |               |
|----------------------------------|-----------------|-------|----------------|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model |
| FV4C(NB,F)003L                   | 0.97            | 1.01  | 1.06           |               |
| FV4C(NB)002L                     | 0.97            | 1.01  | 0.99           | 1.08          |
| CAP**3614AL*                     | 0.96            | 1.06  | 0.97           | 1.09          |
| CAP**3617AL*                     | 0.97            | 1.07  | 0.97           | 1.08          |
| CAP**3614AL*                     | 0.96            | 1.01  | 0.97           | 1.07          |
| CAP**3617AL*                     | 0.97            | 1.01  | 0.97           | 1.06          |
| CAP**3617AL*                     | 0.97            | 1.02  | 0.98           | 1.05          |
| CAP**3621AL*                     | 0.97            | 1.02  | 0.98           | 1.04          |
| CNPV*3617AL*                     | 0.98            | 1.03  | 0.99           | 1.05          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |
| CNPV*3717AL*                     | 1.01            | 1.00  | 1.03           | 58CTW070-16   |
| CNPV*4217AL*                     | 0.99            | 1.04  | 0.99           | 1.05          |
| CAP**3621AL*                     | 0.97            | 0.97  | 0.98           | 1.02          |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 1.03          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 1.03           | 58CTW090-16   |
| CNPV*4321AL*                     | 1.01            | 1.01  | 1.01           | 58CTW090-16   |
| CNPV*3621AL*                     | 0.97            | 1.01  | 0.97           | 1.03          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 0.98           | 1.03          |
| CNPV*3621AL*                     | 0.97            | 0.97  | 0.97           | 1.02          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 0.98           | 1.02          |
| CNPV*4324AL*                     | 1.02            | 0.97  | 1.01           | 0.98          |
| CAP**3617AL*                     | 0.96            | 1.06  | 0.97           | 1.12          |
| CAP**3621AL*                     | 0.96            | 1.06  | 0.97           | 1.11          |
| CAP**4221AL*                     | 0.97            | 1.07  | 0.97           | 1.10          |
| CNPV*3617AL*                     | 0.95            | 1.05  | 0.96           | 1.11          |
| CNPV*3717AL*                     | 1.00            | 1.05  | 0.99           | 1.09          |
| CNPV*4217AL*                     | 0.98            | 1.08  | 0.98           | 1.11          |
| CSPH*3612AL*                     | 0.98            | 1.09  | 0.98           | 1.10          |
| CAP**3614AL*                     | 0.97            | 1.01  | 0.98           | 1.07          |
| CSPH*3612AL*                     | 0.99            | 1.04  | 0.99           | 1.06          |
| CAP**3617AL*                     | 0.97            | 1.02  | 0.98           | 1.05          |
| CAP**3621AL*                     | 0.97            | 1.02  | 0.98           | 1.04          |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 1.04          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |

See notes on page 48

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |                  |
|----------------------------------|-----------------|-------|----------------|------------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model    |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 59*P2A060E17**14 |
| CNPV*3717AL*                     | 1.01            | 1.01  | 1.00           | 59*P2A060E17**14 |
| CNPV*4217AL*                     | 0.99            | 0.99  | 0.99           | 59*P2A060E17**14 |
| CSPH*4812AL*                     | 0.99            | 1.04  | 1.04           | 59*P2A060E17**14 |
| CAP**3617AL*                     | 0.97            | 1.02  | 0.98           | 59*P2A060E17**14 |
| CAP**4821AL*                     | 0.98            | 0.98  | 0.98           | 59*P2A060E17**16 |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 59*P2A060E17**16 |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 59*P2A060E17**16 |
| CNPV*3717AL*                     | 1.01            | 1.01  | 1.00           | 59*P2A060E17**16 |
| CNPV*4217AL*                     | 0.99            | 0.99  | 0.99           | 59*P2A060E17**16 |
| CAP**3617AL*                     | 0.96            | 1.12  | 0.96           | 59*P5A040E17**12 |
| CAP**3621AL*                     | 0.96            | 1.12  | 0.96           | 59*P5A040E17**12 |
| CAP**4221AL*                     | 0.97            | 1.13  | 0.96           | 59*P5A040E17**12 |
| CNPV*3617AL*                     | 0.95            | 1.11  | 0.95           | 59*P5A040E17**12 |
| CNPV*3617AL*                     | 0.95            | 1.11  | 0.95           | 59*P5A040E17**12 |
| CNPV*3717AL*                     | 1.00            | 1.11  | 0.98           | 59*P5A040E17**12 |
| CNPV*4217AL*                     | 0.98            | 1.08  | 0.97           | 59*P5A040E17**12 |
| CAP**3614AL*                     | 0.95            | 1.11  | 0.96           | 59*P5A060E14**12 |
| CAP**3617AL*                     | 0.96            | 1.12  | 0.97           | 59*P5A060E14**12 |
| CAP**3621AL*                     | 0.97            | 1.01  | 0.97           | 59*P5A060E17**14 |
| CAP**4221AL*                     | 0.97            | 1.02  | 0.98           | 59*P5A060E17**14 |
| CNPV*3617AL*                     | 0.96            | 1.01  | 0.97           | 59*P5A060E17**14 |
| CNPV*3717AL*                     | 1.00            | 1.05  | 0.99           | 59*P5A060E17**14 |
| CNPV*4217AL*                     | 0.98            | 1.03  | 0.98           | 59*P5A060E17**14 |

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>°F<br>(°C) | EVA.P.<br>AIR<br>°F (°C) | 24VNA337/FEANB006L Efficiency Mode<br>Condenser Entering Air Temperature °F (°C) |       |                |       |                       |            |         |                |       |                       |            |       |                |       |                       |            |         |                |       |                       |            |       |                |       |                       |       |         |       |         |       |       |       |       |         |      |       |       |       |       |
|-------------------|--------------------------|----------------------------------------------------------------------------------|-------|----------------|-------|-----------------------|------------|---------|----------------|-------|-----------------------|------------|-------|----------------|-------|-----------------------|------------|---------|----------------|-------|-----------------------|------------|-------|----------------|-------|-----------------------|-------|---------|-------|---------|-------|-------|-------|-------|---------|------|-------|-------|-------|-------|
|                   |                          | 115 (46.1)                                                                       |       |                |       |                       | 105 (40.5) |         |                |       |                       | 95 (35)    |       |                |       |                       | 85 (23.3)  |         |                |       |                       | 85 (18.3)  |       |                |       |                       |       |         |       |         |       |       |       |       |         |      |       |       |       |       |
|                   |                          | ID<br>SCFM                                                                       |       | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM |         | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM |       | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM |         | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM |       | Capacity MBtuh |       | Total<br>Sys.<br>KW** |       |         |       |         |       |       |       |       |         |      |       |       |       |       |
|                   |                          | Total                                                                            | Sens† | Total          | Sens† |                       | Total      | Sens†   | Total          | Sens† |                       | Total      | Sens† | Total          | Sens† |                       | Total      | Sens†   | Total          | Sens† |                       | Total      | Sens† | Total          | Sens† |                       |       |         |       |         |       |       |       |       |         |      |       |       |       |       |
| 75<br>(23.9)      | 72<br>(22.2)             | 1050                                                                             |       | 32.70          | 13.63 | 3.49                  |            |         | 34.98          | 14.48 | 3.05                  | 1050       |       |                | 37.03 | 15.26                 | 2.59       | 1050    |                |       | 39.26                 | 16.11      | 2.21  | 1050           |       |                       | 41.44 | 16.95   | 1.86  | 1050    |       |       | 43.61 | 17.78 | 1.54    |      |       |       |       |       |
|                   | 67<br>(19.4)             |                                                                                  |       | 31.53          | 19.22 | 3.08                  |            |         | 31.81          | 19.44 | 3.03                  |            |       |                | 33.70 | 20.30                 | 2.58       |         |                |       | 35.71                 | 21.22      | 2.21  |                |       |                       | 37.69 | 22.14   | 1.87  |         |       |       | 39.65 | 23.05 | 1.56    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 27.56          | 22.33 | 3.44                  | 1050       |         | 29.48          | 23.32 | 3.02                  |            |       |                | 31.25 | 24.26                 | 2.58       |         |                |       | 33.12                 | 25.24      | 2.21  |                |       |                       | 34.94 | 26.21   | 1.88  |         |       |       | 36.75 | 27.17 | 1.58    |      |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 25.78          | 25.78 | 3.41                  |            |         | 27.31          | 27.31 | 3.00                  |            |       |                | 28.73 | 28.73                 | 2.56       |         |                |       | 30.19                 | 30.19      | 2.21  |                |       |                       | 31.62 | 31.62   | 1.89  |         |       |       | 33.01 | 33.01 | 1.61    |      |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 32.58          | 18.47 | 3.49                  |            |         | 34.86          | 19.41 | 3.05                  |            |       |                | 36.91 | 20.26                 | 2.59       |         |                |       | 39.14                 | 21.19      | 2.21  |                |       |                       | 41.32 | 22.11   | 1.86  |         |       |       | 43.48 | 23.02 | 1.54    |      |       |       |       |       |
| 80<br>(26.7)      | 67<br>(19.4)             | 1050                                                                             |       | 31.43          | 24.01 | 3.08                  | 1050       |         | 31.71          | 24.30 | 3.03                  | 1050       |       |                | 33.60 | 25.24                 | 2.58       | 1050    |                |       | 35.61                 | 26.24      | 2.21  | 1050           |       |                       | 37.59 | 27.23   | 1.87  | 1050    |       |       | 39.55 | 28.22 | 1.56    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 27.61          | 27.02 | 3.44                  |            |         |                | 29.49 | 28.13                 |            | 3.02  |                |       | 31.23                 | 29.15      |         | 2.58           |       |                       | 33.10      | 30.22 |                | 2.21  |                       |       | 34.91   | 31.27 |         | 1.88  |       |       | 36.70 | 32.31   | 1.58 |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 27.36          | 27.36 | 3.44                  |            |         |                | 28.98 | 28.98                 |            | 3.01  |                |       | 30.45                 | 30.45      |         | 2.57           |       |                       | 32.00      | 32.00 |                | 2.21  |                       |       | 33.49   | 33.49 |         | 1.89  |       |       | 34.96 | 34.96   | 1.59 |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 22.96          | 9.72  | 2.41                  |            | STAGE 3 |                | 24.70 | 10.37                 |            | 2.11  | STAGE 3        |       |                       | 26.36      |         | 10.99          | 1.76  | STAGE 3               |            |       |                | 28.08 | 11.65                 | 1.50  | STAGE 3 |       |         |       | 29.77 | 12.29 | 1.25  | STAGE 3 |      |       | 31.45 | 12.83 | 1.03  |
|                   | 67<br>(19.4)             |                                                                                  |       | 20.81          | 13.49 | 2.42                  |            |         |                |       | 22.39                 |            | 14.22 |                | 2.13  |                       |            |         | 23.90          | 14.93 |                       | 1.79       |       |                |       | 25.43                 | 15.65 |         | 1.54  |         |       |       | 26.95 | 16.37 |         | 1.30 |       |       | 28.46 | 17.09 |
| 63<br>(17.2)      | 900                      |                                                                                  | 19.24 | 16.44          | 2.42  | 900                   |            |         | 20.68          | 17.23 | 2.14                  | 900        |       |                |       | 22.09                 | 18.01      | 1.80    | 900            |       |                       |            | 23.50 | 18.79          | 1.56  | 900                   |       |         |       | 24.89   | 19.57 | 1.34  |       |       |         |      |       |       |       |       |
| 57<br>(13.9)      |                          | 18.34                                                                            | 18.34 | 2.42           |       |                       | 19.54      |         | 19.54          | 2.15  |                       |            | 20.70 |                | 20.70 | 1.82                  |            |         | 21.85          | 21.85 |                       | 1.58       |       |                | 22.98 | 22.98                 | 1.37  |         |       |         | 24.10 | 24.10 | 1.17  |       |         |      |       |       |       |       |
| 72<br>(22.2)      |                          | 22.86                                                                            | 13.49 | 2.41           |       |                       | 24.60      |         | 14.23          | 2.11  |                       |            | 26.26 |                | 14.93 | 1.76                  |            |         | 27.98          | 15.67 |                       | 1.50       |       |                | 29.67 | 16.39                 | 1.25  |         |       |         | 31.35 | 17.12 | 1.03  |       |         |      |       |       |       |       |
| 80<br>(26.7)      | 67<br>(19.4)             | 900                                                                              |       | 20.74          | 17.22 | 2.42                  | 900        |         | 22.31          | 18.03 | 2.13                  | 900        |       |                | 23.83 | 18.82                 | 1.79       | 900     |                |       | 25.36                 | 19.62      | 1.54  | 900            |       |                       | 26.87 | 20.42   | 1.30  | 900     |       |       | 28.38 | 21.22 | 1.08    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 19.57          | 19.57 | 2.42                  |            |         | 20.83          | 20.83 | 2.14                  |            |       | 22.16          | 21.83 | 1.80                  |            |         | 23.54          | 22.72 | 1.56                  |            |       | 24.92          | 23.58 | 1.33                  |       |         | 26.29 | 24.45   | 1.12  |       |       |       |         |      |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 19.53          | 19.53 | 2.42                  |            |         | 20.79          | 20.79 | 2.14                  |            |       | 22.01          | 22.01 | 1.80                  |            |         | 23.22          | 23.22 | 1.56                  |            |       | 24.42          | 24.42 | 1.34                  |       |         | 25.59 | 25.59   | 1.14  |       |       |       |         |      |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 18.16          | 7.73  | 1.96                  | STAGE 1    |         | 19.62          | 8.28  | 1.73                  | STAGE 1    |       |                | 15.04 | 6.28                  | 0.87       | STAGE 1 |                |       | 16.16                 | 6.71       | 0.72  | STAGE 1        |       |                       | 17.28 | 7.14    | 0.57  | STAGE 1 |       |       | 18.39 | 7.57  | 0.43    |      |       |       |       |       |
|                   | 67<br>(19.4)             |                                                                                  |       | 16.42          | 10.82 | 1.98                  |            |         |                | 17.74 | 11.45                 |            | 1.76  |                |       | 13.64                 | 8.56       |         | 0.91           |       |                       | 14.65      | 9.05  |                | 0.76  |                       |       | 15.65   | 9.54  |         | 0.62  |       |       | 16.65 | 10.04   | 0.49 |       |       |       |       |
| 63<br>(17.2)      | 800                      |                                                                                  | 15.19 | 13.25          | 1.99  | 800                   |            |         | 16.40          | 13.94 | 1.77                  |            | 800   |                |       | 12.63                 | 10.35      |         | 0.93           | 800   |                       |            | 13.55 |                | 10.90 | 0.80                  | 800   |         |       |         | 14.47 | 11.44 | 0.66  | 800   |         |      | 15.39 | 11.99 | 0.53  |       |
| 57<br>(13.9)      |                          | 14.59                                                                            | 14.59 | 1.99           |       |                       |            | 15.61   | 15.61          | 1.78  |                       |            |       | 11.87          | 11.87 | 0.95                  |            |         |                | 12.64 | 12.64                 | 0.82       |       |                |       | 13.40                 | 13.40 | 0.70    |       |         |       | 14.16 | 14.16 | 0.58  |         |      |       |       |       |       |
| 72<br>(22.2)      |                          | 18.08                                                                            | 10.84 | 1.96           |       |                       |            | 19.54   | 11.47          | 1.73  |                       |            |       | 14.98          | 8.55  | 0.87                  |            |         |                | 16.10 | 9.05                  | 0.72       |       |                |       | 17.22                 | 9.55  | 0.57    |       |         |       | 18.33 | 10.05 | 0.43  |         |      |       |       |       |       |
| 80<br>(26.7)      | 67<br>(19.4)             | 800                                                                              |       | 16.38          | 13.89 | 1.98                  | 800        |         | 17.69          | 14.60 | 1.75                  | 800        |       |                | 13.60 | 10.81                 | 0.91       | 800     |                |       | 14.60                 | 11.37      | 0.76  | 800            |       |                       | 15.60 | 11.94   | 0.62  | 800     |       |       | 16.60 | 12.50 | 0.49    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 15.57          | 15.57 | 1.99                  |            |         | 16.66          | 16.66 | 1.77                  |            |       | 12.67          | 12.58 | 0.93                  |            |         | 13.57          | 13.20 | 0.79                  |            |       | 14.48          | 13.82 | 0.66                  |       |         | 15.39 | 14.44   | 0.53  |       |       |       |         |      |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 15.54          | 15.54 | 1.99                  |            |         | 16.63          | 16.63 | 1.77                  |            |       | 12.62          | 12.62 | 0.93                  |            |         | 13.43          | 13.43 | 0.80                  |            |       | 14.23          | 14.23 | 0.67                  |       |         | 15.04 | 15.04   | 0.54  |       |       |       |         |      |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 18.16          | 7.73  | 1.96                  | STAGE 1    |         | 19.62          | 8.28  | 1.73                  | STAGE 1    |       |                | 15.04 | 6.28                  | 0.87       | STAGE 1 |                |       | 16.16                 | 6.71       | 0.72  | STAGE 1        |       |                       | 17.28 | 7.14    | 0.57  | STAGE 1 |       |       | 18.39 | 7.57  | 0.43    |      |       |       |       |       |
|                   | 67<br>(19.4)             |                                                                                  |       | 16.42          | 10.82 | 1.98                  |            |         |                | 17.74 | 11.45                 |            | 1.76  |                |       | 13.64                 | 8.56       |         | 0.91           |       |                       | 14.65      | 9.05  |                | 0.76  |                       |       | 15.65   | 9.54  |         | 0.62  |       |       | 16.65 | 10.04   | 0.49 |       |       |       |       |
| 63<br>(17.2)      | 800                      |                                                                                  | 15.19 | 13.25          | 1.99  | 800                   |            |         | 16.40          | 13.94 | 1.77                  |            | 800   |                |       | 12.63                 | 10.35      |         | 0.93           | 800   |                       |            | 13.55 |                | 10.90 | 0.80                  | 800   |         |       |         | 14.47 | 11.44 | 0.66  | 800   |         |      | 15.39 | 11.99 | 0.53  |       |
| 57<br>(13.9)      |                          | 14.59                                                                            | 14.59 | 1.99           |       |                       |            | 15.61   | 15.61          | 1.78  |                       |            |       | 11.87          | 11.87 | 0.95                  |            |         |                | 12.64 | 12.64                 | 0.82       |       |                |       | 13.40                 | 13.40 | 0.70    |       |         |       | 14.16 | 14.16 | 0.58  |         |      |       |       |       |       |
| 72<br>(22.2)      |                          | 18.08                                                                            | 10.84 | 1.96           |       |                       |            | 19.54   | 11.47          | 1.73  |                       |            |       | 14.98          | 8.55  | 0.87                  |            |         |                | 16.10 | 9.05                  | 0.72       |       |                |       | 17.22                 | 9.55  | 0.57    |       |         |       | 18.33 | 10.05 | 0.43  |         |      |       |       |       |       |
| 80<br>(26.7)      | 67<br>(19.4)             | 800                                                                              |       | 16.38          | 13.89 | 1.98                  | 800        |         | 17.69          | 14.60 | 1.75                  | 800        |       |                | 13.60 | 10.81                 | 0.91       | 800     |                |       | 14.60                 | 11.37      | 0.76  | 800            |       |                       | 15.60 | 11.94   | 0.62  | 800     |       |       | 16.60 | 12.50 | 0.49    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 15.57          | 15.57 | 1.99                  |            |         | 16.66          | 16.66 | 1.77                  |            |       | 12.67          | 12.58 | 0.93                  |            |         | 13.57          | 13.20 | 0.79                  |            |       | 14.48          | 13.82 | 0.66                  |       |         | 15.39 | 14.44   | 0.53  |       |       |       |         |      |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 15.54          | 15.54 | 1.99                  |            |         | 16.63          | 16.63 | 1.77                  |            |       | 12.62          | 12.62 | 0.93                  |            |         | 13.43          | 13.43 | 0.80                  |            |       | 14.23          | 14.23 | 0.67                  |       |         | 15.04 | 15.04   | 0.54  |       |       |       |         |      |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 18.16          | 7.73  | 1.96                  | STAGE 1    |         | 19.62          | 8.28  | 1.73                  | STAGE 1    |       |                | 15.04 | 6.28                  | 0.87       | STAGE 1 |                |       | 16.16                 | 6.71       | 0.72  | STAGE 1        |       |                       | 17.28 | 7.14    | 0.57  | STAGE 1 |       |       | 18.39 | 7.57  | 0.43    |      |       |       |       |       |
|                   | 67<br>(19.4)             |                                                                                  |       | 16.42          | 10.82 | 1.98                  |            |         |                | 17.74 | 11.45                 |            | 1.76  |                |       | 13.64                 | 8.56       |         | 0.91           |       |                       | 14.65      | 9.05  |                | 0.76  |                       |       | 15.65   | 9.54  |         | 0.62  |       |       | 16.65 | 10.04   | 0.49 |       |       |       |       |
| 63<br>(17.2)      | 800                      |                                                                                  | 15.19 | 13.25          | 1.99  | 800                   |            |         | 16.40          | 13.94 | 1.77                  |            | 800   |                |       | 12.63                 | 10.35      |         | 0.93           | 800   |                       |            | 13.55 |                | 10.90 | 0.80                  | 800   |         |       |         | 14.47 | 11.44 | 0.66  | 800   |         |      | 15.39 | 11.99 | 0.53  |       |
| 57<br>(13.9)      |                          | 14.59                                                                            | 14.59 | 1.99           |       |                       |            | 15.61   | 15.61          | 1.78  |                       |            |       | 11.87          | 11.87 | 0.95                  |            |         |                | 12.64 | 12.64                 | 0.82       |       |                |       | 13.40                 | 13.40 | 0.70    |       |         |       | 14.16 | 14.16 | 0.58  |         |      |       |       |       |       |
| 72<br>(22.2)      |                          | 18.08                                                                            | 10.84 | 1.96           |       |                       |            | 19.54   | 11.47          | 1.73  |                       |            |       | 14.98          | 8.55  | 0.87                  |            |         |                | 16.10 | 9.05                  | 0.72       |       |                |       | 17.22                 | 9.55  | 0.57    |       |         |       | 18.33 | 10.05 | 0.43  |         |      |       |       |       |       |
| 80<br>(26.7)      | 67<br>(19.4)             | 800                                                                              |       | 16.38          | 13.89 | 1.98                  | 800        |         | 17.69          | 14.60 | 1.75                  | 800        |       |                | 13.60 | 10.81                 | 0.91       | 800     |                |       | 14.60                 | 11.37      | 0.76  | 800            |       |                       | 15.60 | 11.94   | 0.62  | 800     |       |       | 16.60 | 12.50 | 0.49    |      |       |       |       |       |
|                   | 63<br>(17.2)             |                                                                                  |       | 15.57          | 15.57 | 1.99                  |            |         | 16.66          | 16.66 | 1.77                  |            |       | 12.67          | 12.58 | 0.93                  |            |         | 13.57          | 13.20 | 0.79                  |            |       | 14.48          | 13.82 | 0.66                  |       |         | 15.39 | 14.44   | 0.53  |       |       |       |         |      |       |       |       |       |
|                   | 57<br>(13.9)             |                                                                                  |       | 15.54          | 15.54 | 1.99                  |            |         | 16.63          | 16.63 | 1.77                  |            |       | 12.62          | 12.62 | 0.93                  |            |         | 13.43          | 13.43 | 0.80                  |            |       | 14.23          | 14.23 | 0.67                  |       |         | 15.04 | 15.04   | 0.54  |       |       |       |         |      |       |       |       |       |
|                   | 72<br>(22.2)             |                                                                                  |       | 18.16          | 7.73  | 1.96                  | STAGE 1    |         | 19.62          | 8.28  | 1.73                  | STAGE 1    |       |                | 15.04 | 6.28                  | 0.87       | STAGE 1 |                |       | 16.16                 | 6.71       | 0.72  | STAGE 1        |       |                       | 17.28 | 7.14    | 0.57  | STAGE 1 |       |       | 18.39 | 7.57  | 0.43    |      |       |       |       |       |
|                   | 67<br>(19.4)             |                                                                                  |       | 16.42          | 10.82 | 1.98                  |            |         |                | 17.74 | 11.45                 |            | 1.76  |                |       | 13.64                 | 8.56       |         | 0.91           |       |                       | 14.65      | 9.05  |                | 0.76  |                       |       | 15.65   | 9.54  |         | 0.62  |       |       | 16.65 | 10.04   | 0.49 |       |       |       |       |
| 63<br>(17.2)      | 800                      |                                                                                  | 15.19 | 13.25          | 1.99  | 800                   |            |         | 16.40          | 13.94 | 1.77                  |            | 800   |                |       | 12.63                 | 10.35      |         | 0.93           | 800   |                       |            | 13.55 |                | 10.90 | 0.80                  | 800   |         |       |         | 14.47 | 11.44 | 0.66  | 800   |         |      | 15.39 | 11.99 | 0.53  |       |
| 57<br>(13.9)      |                          | 14.59                                                                            | 14.59 | 1.99           |       |                       |            | 15.61   | 15.61          | 1.78  |                       |            |       | 11.87          | 11.87 | 0.95                  |            |         |                | 12.64 | 12.64                 | 0.82       |       |                |       | 13.40                 | 13.40 | 0.70    |       |         |       | 14.16 | 14.16 | 0.58  |         |      |       |       |       |       |
| 72<br>(22.2)      |                          | 18.08                                                                            | 10.84 | 1.96           |       |                       |            | 19.54   | 11.47          | 1.73  |                       |            |       | 14.98          | 8.55  | 0.87                  |            |         |                | 16.10 | 9.05                  | 0.72       |       |                |       | 17.22                 | 9.55  | 0.57    |       |         |       | 18.33 | 10.05 | 0.43  |         |      |       |       |       |       |
|                   |                          |                                                                                  |       |                |       |                       |            |         |                |       |                       |            |       |                |       |                       |            |         |                |       |                       |            |       |                |       |                       |       |         |       |         |       |       |       |       |         |      |       |       |       |       |

## 24VNA937

| COOLING INDOOR MODEL |              | CAPACITY | POWER            | FURNACE MODEL    |
|----------------------|--------------|----------|------------------|------------------|
| Cooling Indoor Model | CNPH*4221AL* | 0.96     | 1.03             | 59"N"A080V21**20 |
|                      | CNPH*4221AL* | 0.96     | 1.03             | 59"N"A100V21**22 |
|                      | CNPH*4221AL* | 0.96     | 1.03             | 58CVA(X)090-16   |
|                      | CNPH*4221AL* | 0.96     | 1.03             | 58CVA(X)110-20   |
|                      | CNPH*4321AL* | 0.98     | 1.05             | 59"N"A060V17**14 |
|                      | CNPH*4321AL* | 0.99     | 1.05             | 59"N"A080V17**14 |
|                      | CNPH*4321AL* | 0.99     | 1.05             | 59MNTA060V21**20 |
|                      | CNPH*4321AL* | 0.99     | 1.03             | 59"N"A080V21**20 |
|                      | CNPH*4321AL* | 0.99     | 1.03             | 59"N"A100V21**22 |
|                      | CNPH*4321AL* | 0.99     | 1.03             | 58CVA(X)090-16   |
|                      | CNPH*4821AL* | 0.99     | 1.03             | 58CVA(X)110-20   |
|                      | CNPH*4821AL* | 0.01     | 0.15             | 59"N"A060V17**14 |
|                      | CNPH*4821AL* | 0.98     | 1.04             | 59"N"A080V17**14 |
|                      | CNPH*4821AL* | 0.98     | 1.04             | 59MNTA060V21**20 |
|                      | CNPH*4821AL* | 0.98     | 1.02             | 59"N"A080V21**20 |
|                      | CNPH*4821AL* | 0.98     | 1.02             | 59"N"A100V21**22 |
|                      | CNPH*4821AL* | 0.98     | 1.02             | 58CVA(X)090-16   |
|                      | CNPH*4821AL* | 0.98     | 1.02             | 58CVA(X)110-20   |
|                      | CNPH*6024AL* | 0.99     | 1.03             | 59MNTA060V21**20 |
|                      | CNPH*6024AL* | 0.99     | 1.03             | 59"N"A080V21**20 |
|                      | CNPH*6024AL* | 0.99     | 1.03             | 59"N"A100V21**22 |
|                      | CNPH*6024AL* | 0.99     | 1.03             | 59"N"A120V24**22 |
|                      | CNPH*6024AL* | 0.99     | 1.03             | 58CVA(X)110-20   |
|                      | CNPH*6024AL* | 0.99     | 0.99             | 58CVA(X)135-22   |
|                      | CNPH*6024AL* | 0.99     | 0.99             | 58CVA(X)155-22   |
|                      | CNPH*3617AL* | 0.01     | 0.15             | 59"N"A060V17**14 |
|                      | CNPH*3617AL* | 0.01     | 0.15             | 59"N"A080V17**14 |
|                      | CNPH*3617AL* | 0.01     | 0.15             | 59"N"A080V17**14 |
|                      | CNPH*3617AL* | 0.01     | 0.15             | 59MNTA060V21**20 |
|                      | CNPH*3621AL* | 0.95     | 1.01             | 59"N"A080V21**20 |
|                      | CNPH*3621AL* | 0.96     | 1.02             | 59"N"A100V21**22 |
|                      | CNPH*3621AL* | 0.96     | 1.02             | 58CVA(X)090-16   |
| CNPH*3621AL*         | 0.96         | 1.02     | 58CVA(X)110-20   |                  |
| CNPH*3717AL*         | 0.01         | 0.15     | 59"N"A060V17**14 |                  |
| CNPH*3717AL*         | 0.98         | 1.05     | 59"N"A080V17**14 |                  |
| CNPH*3717AL*         | 0.98         | 1.02     | 58CVA(X)090-16   |                  |
| CNPH*3717AL*         | 0.01         | 0.15     | 59"N"A080V17**14 |                  |
| CNPH*4217AL*         | 0.01         | 0.15     | 59"N"A060V17**14 |                  |
| CNPH*4217AL*         | 0.97         | 1.03     | 58CVA(X)070-12   |                  |
| CNPH*4217AL*         | 0.98         | 1.02     | 58CVA(X)090-16   |                  |
| CNPH*4221AL*         | 0.01         | 0.15     | 59"N"A060V17**14 |                  |
| CNPH*4221AL*         | 0.01         | 0.15     | 59"N"A080V17**14 |                  |
| CNPH*4221AL*         | 0.96         | 1.02     | 59MNTA060V21**20 |                  |
| CNPH*4221AL*         | 0.96         | 1.00     | 59"N"A080V21**20 |                  |
| CNPH*4221AL*         | 0.96         | 1.00     | 59"N"A100V21**22 |                  |
| CNPH*4221AL*         | 0.96         | 1.00     | 58CVA(X)090-16   |                  |
| CNPH*4221AL*         | 0.96         | 1.00     | 58CVA(X)110-20   |                  |
| CNPH*4324AL*         | 0.98         | 1.03     | 59MNTA060V21**20 |                  |
| CNPH*4324AL*         | 0.98         | 1.02     | 59"N"A080V21**20 |                  |
| CNPH*4324AL*         | 0.98         | 1.02     | 59"N"A100V21**22 |                  |
| CNPH*4324AL*         | 0.98         | 1.02     | 59"N"A120V24**22 |                  |
| CNPH*4324AL*         | 0.99         | 1.03     | 58CVA(X)110-20   |                  |
| CNPH*4324AL*         | 0.99         | 0.99     | 58CVA(X)135-22   |                  |
| CNPH*4324AL*         | 0.99         | 0.99     | 58CVA(X)155-22   |                  |
| CNPH*6024AL*         | 0.98         | 1.02     | 59MNTA060V21**20 |                  |
| CNPH*6024AL*         | 0.98         | 1.02     | 59"N"A080V21**20 |                  |
| CNPH*6024AL*         | 0.99         | 1.03     | 59"N"A100V21**22 |                  |

| COOLING INDOOR MODEL |              | CAPACITY | POWER           | FURNACE MODEL     |
|----------------------|--------------|----------|-----------------|-------------------|
| A                    | CNPV*6024AL* | 0.98     | 1.02            | 59*N*120V24**22   |
|                      | CNPV*6024AL* | 0.99     | 0.99            | 58CV(A,X)110-20   |
|                      | CNPV*6024AL* | 0.99     | 0.99            | 58CV(A,X)135-22   |
|                      | CNPV*6024AL* | 0.99     | 0.99            | 58CV(A,X)155-22   |
|                      | CSPH*3612AL* | 0.01     | 0.15            | 59*N*AO60V17***14 |
|                      | CSPH*3612AL* | 0.97     | 1.03            | 59*N*AO80V17***14 |
|                      | CSPH*3612AL* | 0.97     | 1.03            | 59MNT*AO60V21**20 |
|                      | CSPH*3612AL* | 0.98     | 1.04            | 59*N*AO80V21**20  |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 59*N*100V21**22   |
|                      | CSPH*3612AL* | 0.98     | 1.04            | 59*N*120V24**22   |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 58CV(A,X)070-12   |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 58CV(A,X)090-16   |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 58CV(A,X)110-20   |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 58CV(A,X)135-22   |
|                      | CSPH*3612AL* | 0.98     | 1.02            | 58CV(A,X)155-22   |
|                      | CSPH*4212AL* | 0.01     | 0.15            | 59*N*AO60V17***14 |
|                      | CSPH*4212AL* | 0.98     | 1.04            | 59*N*AO80V17***14 |
|                      | CSPH*4212AL* | 0.98     | 1.04            | 59MNT*AO60V21**20 |
|                      | CSPH*4212AL* | 0.98     | 1.02            | 59*N*AO80V21**20  |
|                      | CSPH*4212AL* | 0.98     | 1.02            | 59*N*100V21**22   |
| B                    | CSPH*4212AL* | 0.98     | 1.02            | 59*N*120V24**22   |
|                      | CSPH*4212AL* | 0.98     | 1.05            | 58CV(A,X)070-12   |
|                      | CSPH*4212AL* | 0.98     | 1.02            | 58CV(A,X)090-16   |
|                      | CSPH*4212AL* | 0.98     | 1.02            | 58CV(A,X)110-20   |
|                      | CSPH*4212AL* | 0.98     | 1.02            | 58CV(A,X)135-22   |
|                      | CSPH*4212AL* | 0.99     | 1.03            | 58CV(A,X)155-22   |
|                      | CSPH*4812AL* | 0.01     | 0.15            | 59*N*AO60V17***14 |
|                      | CSPH*4812AL* | 0.98     | 1.05            | 59*N*AO80V17***14 |
|                      | CSPH*4812AL* | 0.98     | 1.05            | 59MNT*AO60V21**20 |
|                      | CSPH*4812AL* | 0.98     | 1.02            | 59*N*AO80V21**20  |
|                      | CSPH*4812AL* | 0.98     | 1.02            | 59*N*100V21**22   |
|                      | CSPH*4812AL* | 0.99     | 1.03            | 59*N*120V24**22   |
|                      | CSPH*6012AL* | 0.99     | 1.05            | 59*N*AO60V17***14 |
|                      | CSPH*6012AL* | 0.99     | 1.05            | 59*N*AO80V17***14 |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 59MNT*AO60V21**20 |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 59*N*AO80V21**20  |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 59*N*100V21**22   |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 59*N*120V24**22   |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 58CV(A,X)070-12   |
|                      | CSPH*6012AL* | 0.99     | 1.03            | 58CV(A,X)090-16   |
| CSPH*6012AL*         | 0.99         | 1.03     | 58CV(A,X)110-20 |                   |
| CSPH*6012AL*         | 1.00         | 1.00     | 58CV(A,X)135-22 |                   |
| CSPH*6012AL*         | 1.00         | 1.00     | 58CV(A,X)155-22 |                   |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |       |               |
|----------------------------------|-----------------|-------|----------------|-------|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model |
| *FE4ANB006L                      | 1.00            | 1.00  | 1.00           | 1.00  |               |
| FE4AN(B)F003L                    | 0.96            | 0.99  | 0.98           | 1.08  |               |
| FE4AN(B)F005L                    | 0.99            | 0.98  | 0.99           | 1.03  |               |
| FE4ANF002L                       | 0.95            | 1.02  | 0.98           | 1.14  |               |
| FE5ANB004L                       | 1.01            | 1.00  | 1.01           | 1.01  |               |
| FV4GN(B)F003L                    | 0.96            | 0.99  | 0.98           | 1.06  |               |
| FV4GN(B)F005L                    | 0.99            | 0.98  | 0.99           | 1.03  |               |
| FV4GNB006L                       | 1.00            | 0.99  | 1.00           | 1.00  |               |
| FV4GNF002L                       | 0.95            | 1.02  | 0.98           | 1.12  |               |
| CS9PH*3612AL                     | 0.97            | 1.03  | 0.97           | 1.07  | 58CTW045-12   |
| CS9PH*4212AL *                   | 0.96            | 1.03  | 0.98           | 1.07  | 58CTW045-12   |

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>° F   |              | EVP.<br>AIR |       | 24VNA948 / FE4BNB006 Efficiency Mode<br>Condenser Entering Air Temperature ° F (° C) |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |      |       |       |       |       |      |     |       |       |       |      |
|--------------|--------------|-------------|-------|--------------------------------------------------------------------------------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|-----------|------|-------|-------|-------|-------|------|-----|-------|-------|-------|------|
|              |              |             |       | 115 (46.1)                                                                           |                |       |                       | 105 (40.5) |                |       |                       | 95 (35)    |                |       |                       | 85 (29.4)  |                |       |                       | 75 (23.9)  |                |       |                       | 65 (18.3) |      |       |       |       |       |      |     |       |       |       |      |
|              |              |             |       | ID<br>SCFM                                                                           | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** |           |      |       |       |       |       |      |     |       |       |       |      |
|              |              | Total       |       | Sens†                                                                                |                |       | Total                 |            | Sens†          |       |                       | Total      |                | Sens† |                       |            | Total          |       | Sens†                 |            |                | Total |                       | Sens†     |      |       |       |       |       |      |     |       |       |       |      |
| STAGE 5      |              |             |       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |      |       |       |       |       |      |     |       |       |       |      |
| 75<br>(23.9) | 72<br>(22.2) |             | 44.82 | 18.57                                                                                | 5.52           | 1400  |                       | 47.96      | 19.76          | 4.88  | 1400                  |            | 50.99          | 20.91 | 4.29                  | 1400       |                | 53.98 | 22.06                 | 3.74       | 1400           |       | 56.89                 | 23.19     | 3.23 | 1400  |       | 59.70 | 24.29 | 2.75 |     |       |       |       |      |
|              | 67<br>(19.4) |             | 40.99 | 24.95                                                                                | 5.42           |       |                       | 43.86      | 26.26          | 4.80  |                       |            | 46.65          | 27.54 | 4.23                  |            |                | 49.36 | 28.80                 | 3.70       |                |       | 52.01                 | 30.04     | 3.21 |       |       | 54.80 | 31.27 | 2.75 |     |       |       |       |      |
|              | 63<br>(17.2) |             | 38.13 | 29.97                                                                                | 5.34           |       |                       | 40.79      | 31.36          | 4.74  |                       |            | 43.37          | 32.72 | 4.18                  |            |                | 45.91 | 34.07                 | 3.67       |                |       | 48.37                 | 35.40     | 3.19 |       |       | 50.78 | 36.72 | 2.74 |     |       |       |       |      |
|              | 57<br>(13.9) |             | 35.29 | 35.29                                                                                | 5.26           |       |                       | 37.41      | 37.41          | 4.66  |                       |            | 39.46          | 39.46 | 4.12                  |            |                | 41.45 | 41.45                 | 3.62       |                |       | 43.58                 | 43.09     | 3.16 |       |       | 45.70 | 44.59 | 2.73 |     |       |       |       |      |
|              | 72<br>(22.2) |             | 44.80 | 24.79                                                                                | 5.51           |       |                       | 47.74      | 26.09          | 4.88  |                       |            | 50.77          | 27.36 | 4.28                  |            |                | 53.76 | 28.62                 | 3.73       |                |       | 56.66                 | 29.86     | 3.22 |       |       | 59.48 | 31.07 | 2.75 |     |       |       |       |      |
| 80<br>(26.7) | 67<br>(19.4) |             | 40.84 | 31.14                                                                                | 5.42           | 1400  |                       | 43.71      | 32.55          | 4.80  | 1400                  |            | 46.50          | 33.94 | 4.23                  | 1400       |                | 49.21 | 35.31                 | 3.70       | 1400           |       | 51.86                 | 36.65     | 3.20 | 1400  |       | 54.45 | 37.98 | 2.75 |     |       |       |       |      |
|              | 63<br>(17.2) |             | 38.13 | 36.06                                                                                | 5.34           |       |                       | 40.76      | 37.59          | 4.74  |                       |            | 43.33          | 39.07 | 4.18                  |            |                | 45.84 | 40.54                 | 3.67       |                |       | 48.30                 | 41.98     | 3.18 |       |       | 50.70 | 43.40 | 2.74 |     |       |       |       |      |
|              | 57<br>(13.9) |             | 37.36 | 37.36                                                                                | 5.32           |       |                       | 39.59      | 39.59          | 4.72  |                       |            | 41.72          | 41.72 | 4.16                  |            |                | 43.81 | 43.81                 | 3.64       |                |       | 45.84                 | 45.84     | 3.17 |       |       | 47.82 | 47.82 | 2.73 |     |       |       |       |      |
|              | STAGE 3      |             |       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |      |       |       |       |       |      |     |       |       |       |      |
|              | 72<br>(22.2) |             | 29.42 | 12.62                                                                                | 2.82           |       |                       | 31.60      | 13.43          | 2.56  |                       |            | 33.63          | 14.20 | 2.26                  |            |                | 35.75 | 15.00                 | 2.00       |                |       | 37.82                 | 15.78     | 1.74 |       |       | 39.85 | 16.55 | 1.49 |     |       |       |       |      |
| 75<br>(23.9) | 67<br>(19.4) |             | 26.82 | 17.86                                                                                | 2.80           | 1200  |                       | 28.83      | 18.79          | 2.56  | 1200                  |            | 30.73          | 19.68 | 2.27                  | 1200       |                | 32.66 | 20.60                 | 2.02       | 1200           |       | 34.57                 | 21.50     | 1.77 | 1200  |       | 36.44 | 22.40 | 1.52 |     |       |       |       |      |
|              | 63<br>(17.2) |             | 24.93 | 21.96                                                                                | 2.79           |       |                       | 26.79      | 22.99          | 2.55  |                       |            | 28.58          | 23.99 | 2.26                  |            |                | 30.39 | 25.00                 | 2.02       |                |       | 32.16                 | 26.00     | 1.78 |       |       | 33.91 | 26.99 | 1.55 |     |       |       |       |      |
|              | 57<br>(13.9) |             | 24.03 | 24.03                                                                                | 2.78           |       |                       | 25.61      | 25.61          | 2.55  |                       |            | 27.12          | 27.12 | 2.26                  |            |                | 28.62 | 28.62                 | 2.03       |                |       | 30.11                 | 30.11     | 1.80 |       |       | 31.55 | 31.55 | 1.57 |     |       |       |       |      |
|              | 72<br>(22.2) |             | 29.22 | 17.78                                                                                | 2.81           |       |                       | 31.39      | 18.70          | 2.55  |                       |            | 33.41          | 19.57 | 2.25                  |            |                | 35.52 | 20.47                 | 2.00       |                |       | 37.60                 | 21.37     | 1.74 |       |       | 39.62 | 22.25 | 1.48 |     |       |       |       |      |
|              | 67<br>(19.4) |             | 26.71 | 22.96                                                                                | 2.80           |       |                       | 28.71      | 24.01          | 2.56  |                       |            | 30.60          | 25.01 | 2.26                  |            |                | 32.52 | 26.03                 | 2.01       |                |       | 34.42                 | 27.05     | 1.77 |       |       | 36.30 | 28.05 | 1.52 |     |       |       |       |      |
| 80<br>(26.7) | 63<br>(17.2) |             | 25.56 | 25.56                                                                                | 2.80           | 1200  |                       | 27.23      | 27.23          | 2.55  | 1200                  |            | 28.80          | 28.80 | 2.26                  | 1200       |                | 30.48 | 30.24                 | 2.02       | 1200           |       | 32.21                 | 31.42     | 1.78 | 1200  |       | 33.93 | 32.55 | 1.55 |     |       |       |       |      |
|              | 57<br>(13.9) |             | 25.52 | 25.52                                                                                | 2.80           |       |                       | 27.19      | 27.19          | 2.55  |                       |            | 28.76          | 28.76 | 2.26                  |            |                | 30.35 | 30.35                 | 2.02       |                |       | 31.90                 | 31.90     | 1.78 |       |       | 33.43 | 33.43 | 1.55 |     |       |       |       |      |
|              | STAGE 1      |             |       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |      |       |       |       |       |      |     |       |       |       |      |
|              | 72<br>(22.2) |             | 25.50 | 10.99                                                                                | 2.21           |       | 1100                  |            | 27.46          | 11.73 |                       | 2.07       | 875            |       | 19.62                 |            | 8.56           | 0.95  | 875                   |            |                | 20.96 | 9.06                  | 0.84      | 875  |       |       | 22.29 | 9.57  | 0.72 | 875 |       | 23.61 | 10.07 | 0.57 |
|              | 67<br>(19.4) |             | 23.22 | 15.65                                                                                | 2.21           |       |                       |            | 25.04          | 16.51 |                       | 2.08       |                |       | 17.88                 |            | 12.38          | 0.98  |                       |            |                | 19.11 | 12.99                 | 0.88      |      |       |       | 20.32 | 13.60 | 0.76 |     |       | 21.53 | 14.21 | 0.62 |
| 63<br>(17.2) |              | 21.57       | 19.30 | 2.21                                                                                 |                | 23.24 |                       | 20.26      | 2.08           |       | 16.68                 | 15.37      |                | 1.00  |                       | 17.82      | 16.07          | 0.90  |                       |            | 18.95          | 16.77 | 0.79                  |           |      | 20.07 | 17.46 | 0.66  |       |      |     |       |       |       |      |
| 57<br>(13.9) |              | 20.89       | 20.89 | 2.20                                                                                 |                | 22.32 |                       | 22.32      | 2.08           |       | 16.33                 | 16.33      |                | 1.00  |                       | 17.34      | 17.34          | 0.91  |                       |            | 18.34          | 18.34 | 0.81                  |           |      | 19.33 | 19.33 | 0.68  |       |      |     |       |       |       |      |
| 72<br>(22.2) |              | 25.31       | 15.59 | 2.21                                                                                 | 1100           |       |                       | 27.26      | 16.44          | 2.06  | 875                   |            |                | 19.42 | 12.31                 | 0.95       | 875            |       |                       | 20.76      | 12.92          | 0.84  | 875                   |           |      | 22.09 | 13.52 | 0.71  | 875   |      |     | 23.43 | 14.14 | 0.57  |      |
| 67<br>(19.4) |              | 23.13       | 20.20 | 2.21                                                                                 |                |       | 24.93                 | 21.18      | 2.07           |       |                       | 17.82      | 16.09          | 0.98  |                       | 19.04      |                | 16.80 | 0.88                  |            | 20.25          | 17.51 |                       | 0.76      |      | 21.44 | 18.21 | 0.62  |       |      |     |       |       |       |      |
| 63<br>(17.2) |              | 22.25       | 22.25 | 2.21                                                                                 |                |       | 23.77                 | 23.77      | 2.08           |       |                       | 17.35      | 17.35          | 0.98  |                       | 18.41      |                | 18.41 | 0.89                  |            | 19.46          | 19.46 |                       | 0.78      |      | 20.50 | 20.50 | 0.65  |       |      |     |       |       |       |      |
| 57<br>(13.9) |              | 22.21       | 22.21 | 2.21                                                                                 |                |       | 23.73                 | 23.73      | 2.08           |       |                       | 17.32      | 17.32          | 0.98  |                       | 18.39      |                | 18.39 | 0.89                  |            | 19.43          | 19.43 |                       | 0.78      |      | 20.47 | 20.47 | 0.65  |       |      |     |       |       |       |      |
| STAGE 1      |              |             |       |                                                                                      |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |           |      |       |       |       |       |      |     |       |       |       |      |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage  
Stage 1 – Compressor speed limited to stage two at 105 and 115 outdoor.

See additional notes on page 48

## 24VNA948

See notes on page 48

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DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>° F<br>(° C) |  | EVA<br>AIR       |            | 24VNA949 / *CHNPV*5024AL* Efficiency Mode<br>Condenser Entering Air Temperature °F (° C) |                |                       |                       |                |                |                       |                       |                |                |                       |                       |                |                |                       |                       |                |                |                       |                       |                |                |                       |                       |            |           |                       |                |      |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|---------------------|--|------------------|------------|------------------------------------------------------------------------------------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|----------------|----------------|-----------------------|-----------------------|------------|-----------|-----------------------|----------------|------|----------------|--|----------------|------|----------------|--|----------------|--|----------------|--|----------------|--|-------|--|-------|--|
|                     |  |                  |            | 115 (46.1)                                                                               |                |                       |                       |                | 105 (40.5)     |                       |                       |                |                | 95 (35)               |                       |                |                |                       | 85 (29.4)             |                |                |                       |                       | 75 (23.9)      |                |                       |                       |            | 65 (18.3) |                       |                |      |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | ID<br>SCFM                                                                               | Capacity MBtuh |                       | Total<br>Sys.<br>KW** | ID<br>SCFM     | Capacity MBtuh |                       | Total<br>Sys.<br>KW** | ID<br>SCFM     | Capacity MBtuh |                       | Total<br>Sys.<br>KW** | ID<br>SCFM     | Capacity MBtuh |                       | Total<br>Sys.<br>KW** | ID<br>SCFM     | Capacity MBtuh |                       | Total<br>Sys.<br>KW** | ID<br>SCFM     | Capacity MBtuh |                       | Total<br>Sys.<br>KW** |            |           |                       |                |      |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
| 75<br>(23.9)        |  | EWB<br>° F (° C) | ID<br>SCFM | Total                                                                                    | Sens†          | Total<br>Sys.<br>KW** | ID<br>SCFM            | Total          | Sens†          | Total<br>Sys.<br>KW** | ID<br>SCFM            | Total          | Sens†          | Total<br>Sys.<br>KW** | ID<br>SCFM            | Total          | Sens†          | Total<br>Sys.<br>KW** | ID<br>SCFM            | Total          | Sens†          | Total<br>Sys.<br>KW** | ID<br>SCFM            | Total          | Sens†          | Total<br>Sys.<br>KW** | Capacity MBtuh        | Total      | Sens†     | Total<br>Sys.<br>KW** |                |      |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | Capacity MBtuh                                                                           |                |                       |                       | Capacity MBtuh |                |                       |                       | Capacity MBtuh |                |                       |                       | Capacity MBtuh |                |                       |                       | Capacity MBtuh |                |                       |                       | Capacity MBtuh |                |                       |                       |            |           |                       | Capacity MBtuh |      | Capacity MBtuh |  | Capacity MBtuh |      | Capacity MBtuh |  | Capacity MBtuh |  | Capacity MBtuh |  | Capacity MBtuh |  |       |  |       |  |
|                     |  |                  |            | Total                                                                                    |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       |            |           |                       | Total          |      | Total          |  | Total          |      | Total          |  | Total          |  | Total          |  | Total          |  | Total |  |       |  |
|                     |  |                  |            | Total                                                                                    |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       |            |           |                       | Total          |      | Total          |  | Total          |      | Total          |  | Total          |  | Total          |  | Total          |  | Total |  | Total |  |
|                     |  |                  |            | Total                                                                                    |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       | Total          |                |                       |                       |            |           |                       | Total          |      | Total          |  | Total          |      | Total          |  | Total          |  | Total          |  | Total          |  | Total |  | Total |  |
| 80<br>(26.7)        |  | 72<br>(22.2)     | ID<br>SCFM | 45.15                                                                                    |                | 18.59                 | 4.84                  | ID<br>SCFM     | 47.22          |                       | 19.34                 | 4.10           | ID<br>SCFM     | 49.13                 |                       | 20.04          | 3.62           | ID<br>SCFM            | 50.85                 |                | 20.69          | 3.20                  | ID<br>SCFM            | 52.44          |                | 21.29                 | 2.83                  | ID<br>SCFM | 53.90     |                       | 21.86          | 2.50 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 40.99                                                                                    |                | 24.58                 | 4.57                  |                | 42.88          |                       | 25.28                 | 4.03           |                | 44.59                 |                       | 25.92          | 3.56           |                       | 46.15                 |                | 26.50          | 3.14                  |                       | 47.59          |                | 27.05                 | 2.77                  |            | 48.89     |                       | 27.54          | 2.45 | 49.81          |  | 33.18          | 2.45 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 37.94                                                                                    |                | 20.29                 | 4.53                  |                | 39.67          |                       | 29.93                 | 3.99           |                | 41.26                 |                       | 30.52          | 3.52           |                       | 42.70                 |                | 31.05          | 3.10                  |                       | 44.02          |                | 31.54                 | 2.74                  |            | 45.22     |                       | 31.98          | 2.42 | 46.81          |  | 33.18          | 2.45 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 34.94                                                                                    |                | 34.94                 | 4.48                  |                | 36.17          |                       | 36.17                 | 3.94           |                | 37.25                 |                       | 37.25          | 3.47           |                       | 38.39                 |                | 37.79          | 3.05                  |                       | 39.47          |                | 38.20                 | 2.69                  |            | 40.46     |                       | 38.55          | 2.38 | 42.21          |  | 42.21          | 2.39 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 45.05                                                                                    |                | 24.59                 | 4.95                  |                | 47.12          |                       | 25.29                 | 4.10           |                | 49.03                 |                       | 25.93          | 3.62           |                       | 50.75                 |                | 26.52          | 3.20                  |                       | 52.34          |                | 27.07                 | 2.83                  |            | 53.80     |                       | 27.58          | 2.50 | 58.19          |  | 58.19          | 2.50 |                |  |                |  |                |  |                |  |       |  |       |  |
| 80<br>(26.7)        |  | 67<br>(19.4)     | ID<br>SCFM | 40.90                                                                                    |                | 30.52                 | 4.57                  | ID<br>SCFM     | 42.79          |                       | 31.16                 | 4.03           | ID<br>SCFM     | 44.50                 |                       | 31.73          | 3.56           | ID<br>SCFM            | 46.06                 |                | 32.26          | 3.14                  | ID<br>SCFM            | 47.51          |                | 32.74                 | 2.77                  | ID<br>SCFM | 48.81     |                       | 33.18          | 2.45 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 38.05                                                                                    |                | 35.23                 | 4.53                  |                | 39.74          |                       | 35.81                 | 3.99           |                | 41.31                 |                       | 36.35          | 3.52           |                       | 42.73                 |                | 36.82          | 3.10                  |                       | 44.03          |                | 37.24                 | 2.74                  |            | 45.22     |                       | 37.62          | 2.42 | 48.19          |  | 48.19          | 2.42 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 37.10                                                                                    |                | 37.10                 | 4.51                  |                | 38.37          |                       | 38.37                 | 3.97           |                | 39.51                 |                       | 39.51          | 3.50           |                       | 40.51                 |                | 40.51          | 3.08                  |                       | 41.42          |                | 41.42                 | 2.71                  |            | 42.21     |                       | 42.21          | 2.39 | 44.21          |  | 44.21          | 2.39 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 31.12                                                                                    |                | 13.04                 | 2.69                  |                | 33.04          |                       | 13.72                 | 2.42           |                | 34.76                 |                       | 14.34          | 2.13           |                       | 36.52                 |                | 14.98          | 1.89                  |                       | 38.19          |                | 15.60                 | 1.67                  |            | 39.82     |                       | 16.21          | 1.47 | 41.47          |  | 41.47          | 1.47 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 27.98                                                                                    |                | 17.71                 | 2.68                  |                | 29.74          |                       | 18.37                 | 2.42           |                | 31.35                 |                       | 18.98          | 2.12           |                       | 32.93                 |                | 19.60          | 1.88                  |                       | 34.47          |                | 20.20                 | 1.67                  |            | 35.92     |                       | 20.78          | 1.46 | 37.47          |  | 37.47          | 1.46 |                |  |                |  |                |  |                |  |       |  |       |  |
| 80<br>(26.7)        |  | 63<br>(17.2)     | ID<br>SCFM | 25.70                                                                                    |                | 21.37                 | 2.67                  | ID<br>SCFM     | 27.30          |                       | 22.01                 | 2.41           | ID<br>SCFM     | 28.81                 |                       | 22.61          | 2.11           | ID<br>SCFM            | 30.27                 |                | 23.20          | 1.88                  | ID<br>SCFM            | 31.66          |                | 23.76                 | 1.67                  | ID<br>SCFM | 33.00     |                       | 24.31          | 1.47 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 24.22                                                                                    |                | 24.22                 | 2.66                  |                | 25.43          |                       | 25.43                 | 2.41           |                | 26.54                 |                       | 26.54          | 2.11           |                       | 27.60                 |                | 27.60          | 1.88                  |                       | 28.59          |                | 28.59                 | 1.67                  |            | 29.51     |                       | 29.51          | 1.47 | 30.37          |  | 30.37          | 1.47 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 31.03                                                                                    |                | 17.82                 | 2.69                  |                | 32.96          |                       | 18.48                 | 2.42           |                | 34.67                 |                       | 19.07          | 2.13           |                       | 36.43                 |                | 19.69          | 1.89                  |                       | 38.11          |                | 20.29                 | 1.67                  |            | 39.73     |                       | 20.88          | 1.47 | 41.47          |  | 41.47          | 1.47 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 27.94                                                                                    |                | 22.44                 | 2.68                  |                | 29.69          |                       | 23.08                 | 2.42           |                | 31.28                 |                       | 23.67          | 2.12           |                       | 32.86                 |                | 24.25          | 1.88                  |                       | 34.39          |                | 24.83                 | 1.67                  |            | 35.84     |                       | 25.38          | 1.46 | 37.47          |  | 37.47          | 1.46 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 25.99                                                                                    |                | 25.99                 | 2.67                  |                | 27.49          |                       | 26.68                 | 2.41           |                | 28.94                 |                       | 27.28          | 2.11           |                       | 30.37                 |                | 27.85          | 1.88                  |                       | 31.74          |                | 28.40                 | 1.67                  |            | 33.06     |                       | 28.93          | 1.47 | 34.47          |  | 34.47          | 1.47 |                |  |                |  |                |  |                |  |       |  |       |  |
| 80<br>(26.7)        |  | 57<br>(13.9)     | ID<br>SCFM | 25.95                                                                                    |                | 25.95                 | 2.67                  | ID<br>SCFM     | 27.20          |                       | 27.20                 | 2.41           | ID<br>SCFM     | 28.35                 |                       | 28.35          | 2.11           | ID<br>SCFM            | 29.45                 |                | 29.45          | 1.88                  | ID<br>SCFM            | 30.47          |                | 30.47                 | 1.67                  | ID<br>SCFM | 31.45     |                       | 31.45          | 1.47 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 24.22                                                                                    |                | 10.36                 | 1.81                  |                | 26.07          |                       | 11.01                 | 1.70           |                | 27.44                 |                       | 11.38          | 1.46           |                       | 28.76                 |                | 12.00          | 1.25                  |                       | 29.97          |                | 12.62                 | 1.00                  |            | 31.17     |                       | 13.18          | 0.75 | 32.39          |  | 32.39          | 0.75 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 21.60                                                                                    |                | 14.43                 | 1.81                  |                | 23.29          |                       | 15.08                 | 1.71           |                | 24.82                 |                       | 15.69          | 1.46           |                       | 26.31                 |                | 16.25          | 1.21                  |                       | 27.72          |                | 16.82                 | 0.96                  |            | 29.13     |                       | 17.33          | 0.71 | 30.54          |  | 30.54          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 19.74                                                                                    |                | 17.61                 | 1.80                  |                | 21.27          |                       | 18.26                 | 1.71           |                | 22.79                 |                       | 18.87          | 1.46           |                       | 24.30                 |                | 19.48          | 1.21                  |                       | 25.81          |                | 19.99                 | 0.96                  |            | 27.42     |                       | 20.50          | 0.71 | 28.93          |  | 28.93          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 19.08                                                                                    |                | 19.08                 | 1.80                  |                | 20.28          |                       | 20.28                 | 1.71           |                | 21.79                 |                       | 21.79          | 1.46           |                       | 23.30                 |                | 23.30          | 1.21                  |                       | 24.81          |                | 24.81                 | 0.96                  |            | 26.32     |                       | 26.32          | 0.71 | 27.83          |  | 27.83          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
| 75<br>(23.9)        |  | 72<br>(22.2)     | ID<br>SCFM | 24.14                                                                                    |                | 14.58                 | 1.81                  | ID<br>SCFM     | 25.99          |                       | 15.23                 | 1.70           | ID<br>SCFM     | 27.47                 |                       | 15.84          | 1.46           | ID<br>SCFM            | 28.94                 |                | 16.35          | 1.21                  | ID<br>SCFM            | 30.47          |                | 16.86                 | 0.96                  | ID<br>SCFM | 31.99     |                       | 17.37          | 0.71 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 21.61                                                                                    |                | 18.61                 | 1.81                  |                | 23.27          |                       | 19.26                 | 1.71           |                | 24.80                 |                       | 19.81          | 1.46           |                       | 26.32                 |                | 20.32          | 1.21                  |                       | 27.83          |                | 20.83                 | 0.96                  |            | 29.35     |                       | 21.35          | 0.71 | 30.87          |  | 30.87          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.60                                                                                    |                | 20.60                 | 1.80                  |                | 21.86          |                       | 21.86                 | 1.71           |                | 23.37                 |                       | 23.37          | 1.46           |                       | 24.88                 |                | 24.88          | 1.21                  |                       | 26.39          |                | 26.39                 | 0.96                  |            | 27.90     |                       | 27.90          | 0.71 | 29.41          |  | 29.41          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.56                                                                                    |                | 20.56                 | 1.80                  |                | 21.82          |                       | 21.82                 | 1.71           |                | 23.33                 |                       | 23.33          | 1.46           |                       | 24.84                 |                | 24.84          | 1.21                  |                       | 26.35          |                | 26.35                 | 0.96                  |            | 27.86     |                       | 27.86          | 0.71 | 29.38          |  | 29.38          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.56                                                                                    |                | 20.56                 | 1.80                  |                | 21.82          |                       | 21.82                 | 1.71           |                | 23.33                 |                       | 23.33          | 1.46           |                       | 24.84                 |                | 24.84          | 1.21                  |                       | 26.35          |                | 26.35                 | 0.96                  |            | 27.86     |                       | 27.86          | 0.71 | 29.38          |  | 29.38          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
| 80<br>(26.7)        |  | 67<br>(19.4)     | ID<br>SCFM | 21.61                                                                                    |                | 18.61                 | 1.81                  | ID<br>SCFM     | 23.27          |                       | 19.26                 | 1.71           | ID<br>SCFM     | 24.80                 |                       | 19.81          | 1.46           | ID<br>SCFM            | 26.32                 |                | 20.32          | 1.21                  | ID<br>SCFM            | 27.83          |                | 20.83                 | 0.96                  | ID<br>SCFM | 29.35     |                       | 21.35          | 0.71 |                |  |                |      |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.60                                                                                    |                | 20.60                 | 1.80                  |                | 21.86          |                       | 21.86                 | 1.71           |                | 23.37                 |                       | 23.37          | 1.46           |                       | 24.88                 |                | 24.88          | 1.21                  |                       | 26.39          |                | 26.39                 | 0.96                  |            | 27.90     |                       | 27.90          | 0.71 | 29.41          |  | 29.41          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.56                                                                                    |                | 20.56                 | 1.80                  |                | 21.82          |                       | 21.82                 | 1.71           |                | 23.33                 |                       | 23.33          | 1.46           |                       | 24.84                 |                | 24.84          | 1.21                  |                       | 26.35          |                | 26.35                 | 0.96                  |            | 27.86     |                       | 27.86          | 0.71 | 29.38          |  | 29.38          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.56                                                                                    |                | 20.56                 | 1.80                  |                | 21.82          |                       | 21.82                 | 1.71           |                | 23.33                 |                       | 23.33          | 1.46           |                       | 24.84                 |                | 24.84          | 1.21                  |                       | 26.35          |                | 26.35                 | 0.96                  |            | 27.86     |                       | 27.86          | 0.71 | 29.38          |  | 29.38          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |
|                     |  |                  |            | 20.56                                                                                    |                | 20.56                 | 1.80                  |                | 21.82          |                       | 21.82                 | 1.71           |                | 23.33                 |                       | 23.33          | 1.46           |                       | 24.84                 |                | 24.84          | 1.21                  |                       | 26.35          |                | 26.35                 | 0.96                  |            | 27.86     |                       | 27.86          | 0.71 | 29.38          |  | 29.38          | 0.71 |                |  |                |  |                |  |                |  |       |  |       |  |

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA949

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *CNPV*6024AL*        | 1.00     | 1.00  | 58CV(A.X)155-22  |
| FE4AN(B.F)05L        | 0.99     | 0.99  |                  |
| FE4ANB006L           | 1.00     | 1.00  |                  |
| CAP**4821AL*         | 0.97     | 1.03  | 59MN7A060V21**20 |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A080V21**20  |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A100V21**22  |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A120V24**22  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)110-20  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)135-22  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)155-22  |
| CAP**6021AL*         | 1.00     | 1.00  | 58CV(A.X)090-16  |
| CAP**6021AL*         | 0.99     | 1.06  | 59MN7A060V21**20 |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A080V21**20  |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A100V21**22  |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A120V24**22  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CNPV*4821AL*         | 0.98     | 1.00  | 58CV(A.X)090-16  |
| CNPV*4821AL*         | 0.98     | 1.04  | 59MN7A060V21**20 |
| CNPV*6024AL*         | 0.99     | 0.99  | 59N*A080V21**20  |
| CNPV*6024AL*         | 1.00     | 1.00  | 59N*A100V21**22  |
| CNPV*6024AL*         | 1.00     | 1.00  | 59N*A120V24**22  |
| CNPV*6024AL*         | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CNPV*6024AL*         | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CNPV*6024AL*         | 1.01     | 0.97  | 58CV(A.X)155-22  |
| CNPV*6124AL*         | 1.01     | 0.97  |                  |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |  |                 |       |                |       |                 |  |  |  |  |
|----------------------------------|--|-----------------|-------|----------------|-------|-----------------|--|--|--|--|
| Cooling Indoor Model             |  | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model   |  |  |  |  |
| *CNPV*6024AL*                    |  | 1.00            | 1.00  | 1.00           | 1.00  | 58CV(A.X)155-22 |  |  |  |  |
| FE4AN(B.F)05L                    |  | 0.99            | 0.99  | 1.00           | 1.02  |                 |  |  |  |  |
| FE4ANB006L                       |  | 1.01            | 0.99  | 1.01           | 0.99  |                 |  |  |  |  |
| FV4CN(B.F)05L                    |  | 1.00            | 0.99  | 1.00           | 1.02  |                 |  |  |  |  |
| FV4CNB006L                       |  | 1.01            | 0.99  | 1.01           | 0.99  |                 |  |  |  |  |
| CAP**4821AL*                     |  | 0.97            | 0.99  | 0.98           | 1.05  | 58PH*090-16     |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 1.03  | 1.00           | 1.04  | 58PH*090-16     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.02  | 0.99           | 1.05  | 58PH*090-16     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.01  | 0.99           | 1.05  | 58PH*090-16     |  |  |  |  |
| CSPH*4812AL*                     |  | 0.98            | 1.00  | 0.99           | 1.04  | 58PH*110-20     |  |  |  |  |
| CSPH*6012AL*                     |  | 1.00            | 1.03  | 1.01           | 1.04  | 58PH*110-20     |  |  |  |  |
| CAP**4821AL*                     |  | 0.97            | 0.99  | 0.98           | 1.04  | 58PH*110-20     |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 0.98  | 1.00           | 1.04  | 58PH*110-20     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.99           | 1.04  | 58PH*110-20     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 1.00           | 1.05  | 58PH*110-20     |  |  |  |  |
| CSPH*4812AL*                     |  | 1.00            | 0.98  | 1.01           | 1.04  | 58PH*110-20     |  |  |  |  |
| CAP**4821AL*                     |  | 0.97            | 0.99  | 0.98           | 1.03  | 58CTW090-16     |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 1.03  | 0.99           | 1.04  | 58CTW090-16     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.03  | 58CTW090-16     |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.03  | 58CTW090-16     |  |  |  |  |
| CSPH*4812AL*                     |  | 0.99            | 1.01  | 0.99           | 1.04  | 58CTW090-16     |  |  |  |  |
| CSPH*6012AL*                     |  | 1.00            | 1.03  | 1.00           | 1.02  | 58CTW10-22      |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 1.03  | 1.00           | 1.02  | 58CTW10-22      |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.99           | 1.02  | 58CTW10-22      |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.99           | 1.02  | 58CTW10-22      |  |  |  |  |
| CSPH*4812AL*                     |  | 0.99            | 1.01  | 0.99           | 1.02  | 58CTW10-22      |  |  |  |  |
| CSPH*6012AL*                     |  | 1.01            | 0.99  | 1.01           | 1.02  | 58CTW10-22      |  |  |  |  |
| CAP**4824AL*                     |  | 0.98            | 1.00  | 0.98           | 1.02  | 58CTW135-22     |  |  |  |  |
| CAP**6024AL*                     |  | 1.00            | 0.98  | 0.99           | 1.01  | 58CTW135-22     |  |  |  |  |
| CNPV*6024AL*                     |  | 1.00            | 1.00  | 1.00           | 1.01  | 58CTW135-22     |  |  |  |  |
| CNPV*6124AL*                     |  | 1.00            | 1.00  | 1.00           | 1.02  | 58CTW135-22     |  |  |  |  |
| CNPV*4824AL*                     |  | 0.98            | 1.00  | 0.98           | 1.01  | 58CTW135-22     |  |  |  |  |
| CNPV*6024AL*                     |  | 1.00            | 0.99  | 1.00           | 1.01  | 58CTW135-22     |  |  |  |  |
| CNPV*6124AL*                     |  | 1.01            | 0.99  | 1.02           | 1.01  | 58CTW135-22     |  |  |  |  |
| CSPH*4812AL*                     |  | 0.99            | 1.01  | 0.99           | 1.02  | 58CTW135-22     |  |  |  |  |
| CSPH*6012AL*                     |  | 1.00            | 0.98  | 1.01           | 1.02  | 58CTW135-22     |  |  |  |  |
| CAP**4817AL*                     |  | 0.98            | 1.00  | 0.98           | 1.05  | 59P2A080E17**16 |  |  |  |  |
| CSPH*6012AL*                     |  | 1.00            | 1.03  | 1.00           | 1.05  | 59P2A080E17**16 |  |  |  |  |
| CAP**4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.03  | 59P2A080E21**20 |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A080E21**20 |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A080E21**20 |  |  |  |  |
| CNPV*4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A080E21**20 |  |  |  |  |
| CSPH*4812AL*                     |  | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A080E21**20 |  |  |  |  |
| CSPH*6012AL*                     |  | 1.01            | 1.00  | 1.00           | 1.01  | 59P2A080E21**20 |  |  |  |  |
| CAP**4821AL*                     |  | 0.98            | 1.00  | 0.98           | 1.03  | 59P2A100E21**20 |  |  |  |  |
| CAP**6021AL*                     |  | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A100E21**20 |  |  |  |  |
| CNPV*4812AL*                     |  | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A100E21**20 |  |  |  |  |
| CSPH*6012AL*                     |  | 1.00            | 1.00  | 1.00           | 1.02  | 59P2A100E21**20 |  |  |  |  |
| CAP**4824AL*                     |  | 0.98            | 1.00  | 0.98           | 1.03  | 59P2A100E21**20 |  |  |  |  |
| CAP**6024AL*                     |  | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A120E24**20 |  |  |  |  |
| CNPV*4824AL*                     |  | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A120E24**20 |  |  |  |  |
| CNPV*6024AL*                     |  | 1.00            | 1.03  | 1.00           | 1.02  | 59P2A120E24**20 |  |  |  |  |
| CNPV*6124AL*                     |  | 1.01            | 1.00  | 1.01           | 1.02  | 59P2A120E24**20 |  |  |  |  |
| CNPV*6124AL*                     |  | 1.01            | 1.00  | 1.01           | 1.02  | 59P2A120E24**20 |  |  |  |  |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |                 |  |  |  |  |  |
|----------------------------------|-----------------|-------|----------------|-------|-----------------|--|--|--|--|--|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model   |  |  |  |  |  |
| CSPH*4812AL*                     | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A120E24**20 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.01            | 1.04  | 1.00           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.96           | 1.01  | 59P5A080E21**20 |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.99           | 1.10  | 59P5A100E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 1.00           | 1.10  | 59P5A100E21**20 |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.98           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CAP**6021AL*                     | 0.99            | 1.01  | 1.00           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.01  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 1.03  | 1.01           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.98           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CAP**6021AL*                     | 0.99            | 1.01  | 1.00           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 1.00           | 1.09  | 59P6A100E21**20 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 1.03  | 1.01           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CAP**4824AL*                     | 0.97            | 0.99  | 0.98           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6024AL*                     | 0.99            | 1.01  | 1.01           | 1.06  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6124AL*                     | 1.01            | 1.04  | 1.02           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6124AL*                     | 1.01            | 1.04  | 1.02           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 1.00           | 1.11  | 59P6A120E24**22 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 1.03  | 1.01           | 1.06  | 59P6A120E24**22 |  |  |  |  |  |

See notes on page 48

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

| EDB<br>° F   |                  | EVA/P<br>AIR |              | 24VNA960 / FE4BNB00L Efficiency Mode<br>Condenser Entering Air Temperature ° F (° C) |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
|--------------|------------------|--------------|--------------|--------------------------------------------------------------------------------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|------------|----------------|-------|-----------------------|-------|
|              |                  |              |              | 115 (46.1)                                                                           |       |                       |            | 105 (40.5)     |       |                       |            | 95 (35)        |       |                       |            | 85 (29.4)      |       |                       |            | 75 (23.9)      |       |                       |            | 65 (18.3)      |       |                       |       |
|              |                  |              |              | Capacity MBtuh                                                                       |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** | ID<br>SCFM | Capacity MBtuh |       | Total<br>Sys.<br>KW** |       |
| Total        | Sens†            | Total        | Sens†        | Total                                                                                | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       |            | Total          | Sens† |                       | Total |
| STAGE 5      |                  |              |              |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 75<br>(23.9) | EWB<br>° F (° C) | 72<br>(22.2) | 55.38        | 22.79                                                                                | 7.70  | 1600                  | 59.00      | 24.17          | 6.73  | 1600                  | 62.54      | 25.53          | 5.88  | 1600                  | 65.96      | 26.86          | 5.13  | 1600                  | 69.30      | 28.16          | 4.47  | 1600                  | 72.59      | 29.46          | 3.89  |                       |       |
|              |                  |              | 50.63        | 30.18                                                                                | 7.50  |                       | 53.95      | 31.68          | 6.54  |                       | 57.12      | 33.14          | 5.70  |                       | 60.22      | 34.57          | 4.96  |                       | 63.25      | 35.99          | 4.32  |                       | 66.21      | 37.38          | 3.75  |                       |       |
|              |                  |              | 47.11        | 36.00                                                                                | 7.35  |                       | 50.18      | 37.58          | 6.40  |                       | 53.13      | 39.12          | 5.57  |                       | 55.99      | 40.62          | 4.84  |                       | 58.78      | 42.11          | 4.21  |                       | 61.52      | 43.58          | 3.65  |                       |       |
|              |                  |              | 43.16        | 43.16                                                                                | 7.19  |                       | 45.55      | 45.55          | 6.23  |                       | 47.97      | 47.63          | 5.40  |                       | 50.44      | 49.37          | 4.69  |                       | 52.86      | 51.01          | 4.06  |                       | 55.26      | 52.62          | 3.52  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 80<br>(26.7) | EWB<br>° F (° C) | 72<br>(22.2) | 55.24        | 30.04                                                                                | 7.70  | 1600                  | 58.86      | 31.53          | 6.73  | 1600                  | 62.40      | 33.00          | 5.88  | 1600                  | 65.82      | 34.44          | 5.13  | 1600                  | 69.15      | 35.85          | 4.47  | 1600                  | 72.44      | 37.26          | 3.89  |                       |       |
|              |                  |              | 50.50        | 37.37                                                                                | 7.50  |                       | 53.83      | 38.98          | 6.54  |                       | 57.00      | 40.53          | 5.70  |                       | 60.10      | 42.07          | 4.96  |                       | 63.13      | 43.59          | 4.32  |                       | 66.10      | 45.08          | 3.75  |                       |       |
|              |                  |              | 47.09        | 43.10                                                                                | 7.35  |                       | 50.13      | 44.81          | 6.40  |                       | 53.07      | 46.46          | 5.57  |                       | 55.91      | 48.08          | 4.84  |                       | 58.70      | 49.67          | 4.21  |                       | 61.44      | 51.25          | 3.65  |                       |       |
|              |                  |              | 45.62        | 45.62                                                                                | 7.29  |                       | 48.12      | 48.12          | 6.33  |                       | 50.51      | 50.51          | 5.49  |                       | 52.83      | 52.83          | 4.76  |                       | 55.06      | 55.06          | 4.12  |                       | 57.24      | 57.24          | 3.56  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| STAGE 3      |                  |              |              |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 75<br>(23.9) | EWB<br>° F (° C) | 72<br>(22.2) | 35.94        | 15.07                                                                                | 3.39  | 1350                  | 38.40      | 15.98          | 3.08  | 1350                  | 40.44      | 16.73          | 2.76  | 1350                  | 42.79      | 17.61          | 2.51  | 1350                  | 45.10      | 18.48          | 2.29  | 1350                  | 47.36      | 19.34          | 2.08  |                       |       |
|              |                  |              | 32.49        | 20.54                                                                                | 3.35  |                       | 34.72      | 21.48          | 3.05  |                       | 36.67      | 22.32          | 2.72  |                       | 38.80      | 23.24          | 2.47  |                       | 40.88      | 24.15          | 2.24  |                       | 42.94      | 25.05          | 2.04  |                       |       |
|              |                  |              | 29.95        | 24.83                                                                                | 3.33  |                       | 32.01      | 25.81          | 3.03  |                       | 33.87      | 26.70          | 2.69  |                       | 35.85      | 27.65          | 2.44  |                       | 37.78      | 28.59          | 2.22  |                       | 39.68      | 29.52          | 2.01  |                       |       |
|              |                  |              | 28.14        | 28.14                                                                                | 3.32  |                       | 29.76      | 29.76          | 3.02  |                       | 31.24      | 31.24          | 2.67  |                       | 32.75      | 32.75          | 2.42  |                       | 34.21      | 34.21          | 2.19  |                       | 35.65      | 35.65          | 1.99  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 80<br>(26.7) | EWB<br>° F (° C) | 72<br>(22.2) | 35.82        | 20.59                                                                                | 3.39  | 1350                  | 38.29      | 21.54          | 3.08  | 1350                  | 40.32      | 22.34          | 2.76  | 1350                  | 42.67      | 23.26          | 2.51  | 1350                  | 44.98      | 24.17          | 2.29  | 1350                  | 47.24      | 25.07          | 2.08  |                       |       |
|              |                  |              | 32.39        | 26.01                                                                                | 3.35  |                       | 34.62      | 26.99          | 3.05  |                       | 36.56      | 27.87          | 2.72  |                       | 38.70      | 28.83          | 2.47  |                       | 40.78      | 29.77          | 2.24  |                       | 42.84      | 30.72          | 2.04  |                       |       |
|              |                  |              | 30.07        | 30.04                                                                                | 3.29  |                       | 32.09      | 31.18          | 3.03  |                       | 33.90      | 32.16          | 2.69  |                       | 35.85      | 33.17          | 2.44  |                       | 37.76      | 34.16          | 2.22  |                       | 39.65      | 35.14          | 2.01  |                       |       |
|              |                  |              | 30.02        | 30.02                                                                                | 3.33  |                       | 31.70      | 31.70          | 3.03  |                       | 33.22      | 33.22          | 2.68  |                       | 34.80      | 34.80          | 2.43  |                       | 36.33      | 36.33          | 2.21  |                       | 37.82      | 37.82          | 2.00  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| STAGE 1      |                  |              |              |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 75<br>(23.9) | EWB<br>° F (° C) | 72<br>(22.2) | 26.64        | 11.34                                                                                | 1.89  | 1200                  | 28.56      | 12.02          | 1.84  | 975                   | 20.89      | 8.78           | 1.03  | 975                   | 22.26      | 9.26           | 1.00  | 975                   | 23.59      | 9.73           | 0.91  | 975                   | 24.89      | 10.21          | 0.75  |                       |       |
|              |                  |              | 23.86        | 15.71                                                                                | 1.89  |                       | 25.60      | 16.40          | 1.84  |                       | 18.63      | 11.93          | 1.02  |                       | 19.89      | 12.40          | 1.00  |                       | 21.11      | 12.85          | 0.92  |                       | 22.30      | 13.31          | 0.77  |                       |       |
|              |                  |              | 21.85        | 19.14                                                                                | 1.89  |                       | 23.45      | 19.83          | 1.84  |                       | 16.95      | 14.38          | 1.01  |                       | 18.11      | 14.83          | 1.00  |                       | 19.24      | 15.26          | 0.92  |                       | 20.34      | 15.69          | 0.79  |                       |       |
|              |                  |              | 20.91        | 20.91                                                                                | 1.88  |                       | 22.14      | 22.14          | 1.84  |                       | 15.97      | 15.97          | 1.01  |                       | 16.81      | 16.81          | 1.00  |                       | 17.62      | 17.62          | 0.94  |                       | 18.38      | 18.38          | 0.81  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |
| 80<br>(26.7) | EWB<br>° F (° C) | 72<br>(22.2) | 26.55        | 15.84                                                                                | 1.89  | 1200                  | 28.46      | 16.52          | 1.84  | 975                   | 20.81      | 12.06          | 1.03  | 975                   | 22.18      | 12.52          | 1.00  | 975                   | 23.51      | 12.97          | 0.91  | 975                   | 24.81      | 13.42          | 0.75  |                       |       |
|              |                  |              | 23.79        | 20.16                                                                                | 1.89  |                       | 25.52      | 20.85          | 1.84  |                       | 18.58      | 15.17          | 1.02  |                       | 19.83      | 15.62          | 1.00  |                       | 21.05      | 16.05          | 0.92  |                       | 22.24      | 16.48          | 0.77  |                       |       |
|              |                  |              | 22.48        | 22.48                                                                                | 1.89  |                       | 23.77      | 23.77          | 1.84  |                       | 17.25      | 17.25          | 1.01  |                       | 18.20      | 17.98          | 1.00  |                       | 19.28      | 18.43          | 0.92  |                       | 20.35      | 18.85          | 0.79  |                       |       |
|              |                  |              | 22.44        | 22.44                                                                                | 1.89  |                       | 23.72      | 23.72          | 1.84  |                       | 17.21      | 17.21          | 1.01  |                       | 18.08      | 18.08          | 1.00  |                       | 18.91      | 18.91          | 0.93  |                       | 19.70      | 19.70          | 0.80  |                       |       |
|              |                  |              | 57<br>(13.9) |                                                                                      |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |            |                |       |                       |       |

DETAILED COOLING CAPACITIES# - EFFICIENCY MODE CONTINUED

24VNA960

| COOLING INDOOR MODEL |  |      | CAPACITY |  |      | POWER |  |      | FURNACE MODEL    |  |  |
|----------------------|--|------|----------|--|------|-------|--|------|------------------|--|--|
| *FE4ANB006L          |  | 1.00 |          |  | 1.00 |       |  | 1.00 |                  |  |  |
| CAP**6021AL*         |  | 0.99 |          |  | 0.99 |       |  | 0.99 | 58CV(A.X)110-20  |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 0.99 |       |  | 0.99 | 58CV(A.X)110-20  |  |  |
| CNPH*6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 58CV(A.X)110-20  |  |  |
| CNPH*6124AL*         |  | 0.99 |          |  | 0.99 |       |  | 1.04 | 58CV(A.X)110-20  |  |  |
| CNPV*6024AL*         |  | 0.98 |          |  | 0.98 |       |  | 0.98 | 58CV(A.X)110-20  |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)110-20  |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)110-20  |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 0.99 |       |  | 0.99 | 58CV(A.X)135-22  |  |  |
| CNPH*6024AL*         |  | 0.99 |          |  | 0.99 |       |  | 0.99 | 58CV(A.X)135-22  |  |  |
| CNPH*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)135-22  |  |  |
| CNPV*6024AL*         |  | 0.98 |          |  | 0.98 |       |  | 0.98 | 58CV(A.X)135-22  |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)135-22  |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)135-22  |  |  |
| CAP**6024AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)155-22  |  |  |
| CNPH*6024AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)155-22  |  |  |
| CNPH*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)155-22  |  |  |
| CNPV*6024AL*         |  | 0.99 |          |  | 0.99 |       |  | 0.99 | 58CV(A.X)155-22  |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)155-22  |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 58CV(A.X)155-22  |  |  |
| CAP**6021AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A080V21**20 |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A080V21**20 |  |  |
| CNPH*6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A080V21**20 |  |  |
| CNPH*6124AL*         |  | 0.98 |          |  | 1.03 |       |  | 1.03 | 59*N*A080V21**20 |  |  |
| CNPV*6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A080V21**20 |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A100V21**22 |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A100V21**22 |  |  |
| CAP**6021AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A100V21**22 |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A100V21**22 |  |  |
| CNPH*6024AL*         |  | 0.98 |          |  | 0.98 |       |  | 0.98 | 59*N*A100V21**22 |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A100V21**22 |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A100V21**22 |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A120V24**22 |  |  |
| CNPH*6024AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A120V24**22 |  |  |
| CNPH*6124AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59*N*A120V24**22 |  |  |
| CNPV*6024AL*         |  | 0.98 |          |  | 0.99 |       |  | 0.99 | 59*N*A120V24**22 |  |  |
| CNPV*6124AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A120V24**22 |  |  |
| CSPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A120V24**22 |  |  |
| CAP**6021AL*         |  | 0.99 |          |  | 1.03 |       |  | 1.03 | 59*N*A120V24**22 |  |  |
| CAP**6024AL*         |  | 0.99 |          |  | 1.00 |       |  | 1.00 | 59*N*A120V24**22 |  |  |
| CNPH*6012AL*         |  | 1.00 |          |  | 1.00 |       |  | 1.00 | 59*N*A120V24**22 |  |  |
| CAP**6021AL*         |  | 0.98 |          |  | 1.03 |       |  | 1.03 | 59MN7A060V21**20 |  |  |
| CAP**6024AL*         |  | 0.98 |          |  | 1.03 |       |  | 1.03 | 59MN7A060V21**20 |  |  |
| CNPH*6024AL*         |  | 0.98 |          |  | 1.09 |       |  | 1.09 | 59MN7A060V21**20 |  |  |
| CNPH*6124AL*         |  | 0.98 |          |  | 1.09 |       |  | 1.09 | 59MN7A060V21**20 |  |  |
| CNPV*6024AL*         |  | 0.97 |          |  | 1.02 |       |  | 1.02 | 59MN7A060V21**20 |  |  |
| CNPV*6124AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59MN7A060V21**20 |  |  |
| CSPH*6012AL*         |  | 0.99 |          |  | 1.04 |       |  | 1.04 | 59MN7A060V21**20 |  |  |

See notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

| EDB<br>° F (° C) | EVAP AIR<br>EWB<br>° F (° C) | 24VNA913 / FE4ANF002L Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
|------------------|------------------------------|-------------------------------------------------------------------------------------------------|----------------|-------|------------------|---------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|
|                  |                              | 105 (40.5)                                                                                      |                |       |                  | 95 (35) |                |       |                  | 85 (29.4) |                |       |                  | 75 (23.9) |                |       |                  | 65 (18.3) |                |       |                  |
|                  |                              | ID SCFM                                                                                         | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW |
|                  |                              |                                                                                                 | Total          | Sens† |                  |         | Total          | Sens† |                  |           | Total          | Sens† |                  |           | Total          | Sens† |                  |           | Total          | Sens† |                  |
| 75 (23.9)        | 72<br>(22.2)                 | 360                                                                                             | 13.14          | 5.38  | 1.16             | 420     | 14.21          | 5.86  | 0.98             | 420       | 15.07          | 6.18  | 0.81             | 420       | 15.92          | 6.51  | 0.65             | 420       | 16.76          | 6.83  | 0.50             |
|                  | 67<br>(19.4)                 |                                                                                                 | 11.86          | 7.01  | 1.16             |         | 12.84          | 7.79  | 0.98             |           | 13.61          | 8.13  | 0.82             |           | 14.37          | 8.46  | 0.67             |           | 15.11          | 8.79  | 0.53             |
|                  | 63<br>(17.2)                 |                                                                                                 | 10.91          | 8.29  | 1.16             |         | 11.83          | 9.30  | 0.99             |           | 12.53          | 9.64  | 0.83             |           | 13.22          | 9.98  | 0.69             |           | 13.89          | 10.32 | 0.56             |
|                  | 57<br>(13.9)                 |                                                                                                 | 9.88           | 9.88  | 1.16             |         | 10.89          | 10.89 | 0.99             |           | 11.42          | 11.42 | 0.84             |           | 11.93          | 11.93 | 0.71             |           | 12.42          | 12.42 | 0.59             |
|                  | 72<br>(22.2)                 |                                                                                                 | 13.10          | 7.04  | 1.16             |         | 14.16          | 7.81  | 0.98             |           | 15.02          | 8.15  | 0.81             |           | 15.87          | 8.49  | 0.65             |           | 16.71          | 8.83  | 0.50             |
| 80 (26.7)        | 67<br>(19.4)                 | 360                                                                                             | 11.82          | 8.65  | 1.16             | 420     | 12.80          | 9.71  | 0.98             | 420       | 13.57          | 10.07 | 0.82             | 420       | 14.33          | 10.42 | 0.67             | 420       | 15.07          | 10.76 | 0.53             |
|                  | 63<br>(17.2)                 |                                                                                                 | 10.90          | 9.92  | 1.16             |         | 11.84          | 11.20 | 0.99             |           | 12.54          | 11.57 | 0.83             |           | 13.22          | 11.93 | 0.69             |           | 13.88          | 12.28 | 0.56             |
|                  | 57<br>(13.9)                 |                                                                                                 | 10.51          | 10.51 | 1.16             |         | 11.59          | 11.59 | 0.99             |           | 12.16          | 12.16 | 0.83             |           | 12.70          | 12.70 | 0.70             |           | 13.22          | 13.22 | 0.57             |
|                  | 72<br>(22.2)                 |                                                                                                 | 10.85          | 4.45  | 0.90             |         | 11.86          | 4.92  | 0.77             |           | 12.61          | 5.20  | 0.65             |           | 13.33          | 5.47  | 0.54             |           | 14.04          | 5.74  | 0.43             |
|                  | 67<br>(19.4)                 |                                                                                                 | 9.75           | 5.82  | 0.91             |         | 10.67          | 6.59  | 0.78             |           | 11.33          | 6.88  | 0.68             |           | 11.97          | 7.17  | 0.57             |           | 12.60          | 7.45  | 0.47             |
| 75 (23.9)        | 63<br>(17.2)                 | 300                                                                                             | 8.96           | 6.90  | 0.91             | 360     | 9.81           | 7.90  | 0.79             | 360       | 10.40          | 8.20  | 0.69             | 360       | 10.98          | 8.49  | 0.60             | 360       | 11.55          | 8.78  | 0.50             |
|                  | 57<br>(13.9)                 |                                                                                                 | 8.17           | 8.17  | 0.92             |         | 9.13           | 9.13  | 0.79             |           | 9.58           | 9.58  | 0.71             |           | 10.02          | 10.02 | 0.62             |           | 10.45          | 10.45 | 0.53             |
|                  | 72<br>(22.2)                 |                                                                                                 | 10.82          | 5.86  | 0.90             |         | 11.82          | 6.62  | 0.77             |           | 12.56          | 6.92  | 0.65             |           | 13.29          | 7.21  | 0.54             |           | 14.00          | 7.50  | 0.43             |
|                  | 67<br>(19.4)                 |                                                                                                 | 9.73           | 7.22  | 0.91             |         | 10.64          | 8.28  | 0.78             |           | 11.30          | 8.59  | 0.68             |           | 11.94          | 8.89  | 0.57             |           | 12.57          | 9.19  | 0.47             |
|                  | 63<br>(17.2)                 |                                                                                                 | 8.97           | 8.29  | 0.91             |         | 9.84           | 9.57  | 0.79             |           | 10.42          | 9.89  | 0.69             |           | 10.99          | 10.21 | 0.60             |           | 11.56          | 10.52 | 0.50             |
| 80 (26.7)        | 57<br>(13.9)                 | 300                                                                                             | 8.70           | 8.70  | 0.91             | 360     | 9.73           | 9.73  | 0.79             | 360       | 10.22          | 10.22 | 0.69             | 360       | 10.68          | 10.68 | 0.60             | 360       | 11.14          | 11.14 | 0.51             |
|                  | 72<br>(22.2)                 |                                                                                                 | 9.87           | 4.09  | 0.77             |         | 8.43           | 3.60  | 0.51             |           | 9.04           | 3.82  | 0.45             |           | 9.66           | 4.05  | 0.37             |           | 10.27          | 4.28  | 0.28             |
|                  | 67<br>(19.4)                 |                                                                                                 | 8.87           | 5.49  | 0.78             |         | 7.60           | 5.04  | 0.52             |           | 8.15           | 5.28  | 0.46             |           | 8.69           | 5.52  | 0.39             |           | 9.22           | 5.76  | 0.32             |
|                  | 63<br>(17.2)                 |                                                                                                 | 8.15           | 6.59  | 0.78             |         | 7.00           | 6.18  | 0.52             |           | 7.50           | 6.43  | 0.47             |           | 7.98           | 6.68  | 0.41             |           | 8.45           | 6.93  | 0.34             |
|                  | 57<br>(13.9)                 |                                                                                                 | 7.59           | 7.59  | 0.78             |         | 6.74           | 6.74  | 0.52             |           | 7.15           | 7.15  | 0.47             |           | 7.53           | 7.53  | 0.42             |           | 7.89           | 7.89  | 0.36             |
| 75 (23.9)        | 72<br>(22.2)                 | 300                                                                                             | 9.83           | 5.52  | 0.77             | 360     | 8.39           | 5.05  | 0.51             | 360       | 9.00           | 5.30  | 0.45             | 360       | 9.62           | 5.55  | 0.37             | 360       | 10.23          | 5.80  | 0.28             |
|                  | 67<br>(19.4)                 |                                                                                                 | 8.84           | 6.90  | 0.78             |         | 7.58           | 6.49  | 0.52             |           | 8.13           | 6.75  | 0.46             |           | 8.67           | 7.01  | 0.39             |           | 9.19           | 7.27  | 0.32             |
|                  | 63<br>(17.2)                 |                                                                                                 | 8.17           | 7.99  | 0.78             |         | 7.22           | 7.22  | 0.52             |           | 7.65           | 7.65  | 0.47             |           | 8.07           | 8.07  | 0.41             |           | 8.49           | 8.42  | 0.34             |
|                  | 57<br>(13.9)                 |                                                                                                 | 8.09           | 8.09  | 0.78             |         | 7.21           | 7.21  | 0.52             |           | 7.64           | 7.64  | 0.47             |           | 8.05           | 8.05  | 0.41             |           | 8.45           | 8.45  | 0.34             |
|                  | 80 (26.7)                    |                                                                                                 | 72<br>(22.2)   | 300   | 10.27            |         | 4.28           | 0.28  | 360              |           | 10.27          | 4.28  | 0.37             |           | 360            | 10.27 | 4.28             |           | 0.37           | 360   | 10.27            |
| 67<br>(19.4)     | 9.22                         | 5.76                                                                                            | 0.32           |       | 9.22             | 5.76    | 0.39           | 9.22  |                  | 5.76      | 0.39           | 9.22  | 5.76             | 0.39      |                | 9.22  | 5.76             | 0.32      |                |       |                  |
| 63<br>(17.2)     | 8.45                         | 6.83                                                                                            | 0.34           |       | 8.45             | 6.83    | 0.41           | 8.45  |                  | 6.83      | 0.41           | 8.45  | 6.83             | 0.41      |                | 8.45  | 6.83             | 0.34      |                |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            | 0.36           |       | 7.89             | 7.89    | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             | 0.42      |                | 7.89  | 7.89             | 0.36      |                |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             | 10.23          |       | 5.80             | 0.28    | 360            | 10.23 |                  | 5.80      | 0.37           | 360   | 10.23            | 5.80      |                | 0.37  | 360              | 10.23     | 5.80           |       | 0.37             |
| 67<br>(19.4)     | 9.19                         |                                                                                                 | 7.27           | 0.32  | 9.19             | 7.27    |                | 0.39  | 9.19             | 7.27      | 0.39           |       | 9.19             | 7.27      | 0.39           | 9.19  |                  | 7.27      | 0.32           |       |                  |
| 63<br>(17.2)     | 8.49                         |                                                                                                 | 8.42           | 0.34  | 8.49             | 8.42    |                | 0.41  | 8.49             | 8.42      | 0.41           |       | 8.49             | 8.42      | 0.41           | 8.49  |                  | 8.42      | 0.34           |       |                  |
| 57<br>(13.9)     | 8.45                         |                                                                                                 | 8.45           | 0.34  | 8.45             | 8.45    |                | 0.41  | 8.45             | 8.45      | 0.41           |       | 8.45             | 8.45      | 0.41           | 8.45  |                  | 8.45      | 0.34           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 |                                                                                                 | 300            | 8.45  | 8.45             | 0.34    |                | 360   | 8.45             | 8.45      | 0.41           |       | 360              | 8.45      | 8.45           | 0.41  |                  | 360       | 8.45           | 8.45  | 0.41             |
| 67<br>(19.4)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             |                | 7.89  | 7.89             | 0.36    | 360            |       | 7.89             | 7.89      | 0.42           | 360   |                  | 7.89      | 7.89           | 0.42  | 360              |           | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 |                                                                                                 | 300            | 7.89  | 7.89             | 0.36    |                | 360   | 7.89             | 7.89      | 0.42           |       | 360              | 7.89      | 7.89           | 0.42  |                  | 360       | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             |                | 7.89  | 7.89             | 0.36    | 360            |       | 7.89             | 7.89      | 0.42           | 360   |                  | 7.89      | 7.89           | 0.42  | 360              |           | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 |                                                                                                 | 300            | 7.89  | 7.89             | 0.36    |                | 360   | 7.89             | 7.89      | 0.42           |       | 360              | 7.89      | 7.89           | 0.42  |                  | 360       | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             |                | 7.89  | 7.89             | 0.36    | 360            |       | 7.89             | 7.89      | 0.42           | 360   |                  | 7.89      | 7.89           | 0.42  | 360              |           | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 |                                                                                                 | 300            | 7.89  | 7.89             | 0.36    |                | 360   | 7.89             | 7.89      | 0.42           |       | 360              | 7.89      | 7.89           | 0.42  |                  | 360       | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             |                | 7.89  | 7.89             | 0.36    | 360            |       | 7.89             | 7.89      | 0.42           | 360   |                  | 7.89      | 7.89           | 0.42  | 360              |           | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 |                                                                                                 | 300            | 7.89  | 7.89             | 0.36    |                | 360   | 7.89             | 7.89      | 0.42           |       | 360              | 7.89      | 7.89           | 0.42  |                  | 360       | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 63<br>(17.2)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 57<br>(13.9)     | 7.89                         | 7.89                                                                                            |                | 0.36  | 7.89             | 7.89    | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7.89      | 0.42           | 7.89  | 7.89             |           | 0.36           |       |                  |
| 80 (26.7)        | 72<br>(22.2)                 | 300                                                                                             |                | 7.89  | 7.89             | 0.36    | 360            |       | 7.89             | 7.89      | 0.42           | 360   |                  | 7.89      | 7.89           | 0.42  | 360              |           | 7.89           | 7.89  | 0.42             |
| 67<br>(19.4)     | 7.89                         |                                                                                                 | 7.89           | 0.36  | 7.89             | 7.89    |                | 0.42  | 7.89             | 7.89      | 0.42           |       | 7.89             | 7.89      | 0.42           | 7.89  |                  | 7         |                |       |                  |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage  
Stage 1 – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 48

# DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

24VNA913

| COOLING INDOOR<br>MODEL | CAPACITY | POWER | FURNACE MODEL    |
|-------------------------|----------|-------|------------------|
| *FE4ANF002L             | 1.00     | 1.00  |                  |
| CAP**1814AL*            | 0.98     | 0.98  | 58CV(A.X)070-12  |
| CAP**2414AL*            | 0.99     | 0.99  | 58CV(A.X)070-12  |
| CAP**2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CAP**2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CNPH*2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CNPH*2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CNPV*2414AL*            | 1.00     | 1.00  | 58CV(A.X)070-12  |
| CNPV*2417AL*            | 0.99     | 0.99  | 59*N*A060V17**14 |
| CNPV*2417AL*            | 0.99     | 0.99  | 59*N*A080V17**14 |
| CSPH*2412AL*            | 1.00     | 1.00  | 59*N*A060V17**14 |
| CSPH*2412AL*            | 1.00     | 1.00  | 59*N*A080V17**14 |

See additional notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE

| EDB<br>° F (° C) | EVAP AIR<br>EWB<br>° F (° C) | 24VNA32A / FEANF005 Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |       |                  |         |                         |         |                  |         |                         |       |                  |         |                         |       |                  |         |                         |       |                  |         |                         |       |                  |         |                         |                                         |                  |         |                         |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       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|------------------|------------------------------|-----------------------------------------------------------------------------------------------|-------|------------------|---------|-------------------------|---------|------------------|---------|-------------------------|-------|------------------|---------|-------------------------|-------|------------------|---------|-------------------------|-------|------------------|---------|-------------------------|-------|------------------|---------|-------------------------|-----------------------------------------|------------------|---------|-------------------------|-------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                  |                              | 105 (40.5)                                                                                    |       |                  |         |                         | 95 (35) |                  |         |                         |       | STAGE 5          |         |                         |       |                  | STAGE 3 |                         |       |                  |         | STAGE 1 - FEANF005 ONLY |       |                  |         |                         | STAGE 1 - ALL OTHER INDOOR COMBINATIONS |                  |         |                         |       |                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       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|                  |                              | Capacity MBtuh                                                                                |       | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens†   | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens† | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens†                                   | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sens† | Total Sys.<br>KW |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       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|                  |                              | Total                                                                                         | Sens† |                  |         |                         |         |                  |         |                         |       |                  |         |                         |       |                  |         |                         |       |                  |         |                         |       |                  |         |                         |                                         |                  |         |                         |       |                  | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total | Sens† | Total |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

Stage 1 — Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 48

**24VNA924A**

| COOLING INDOOR MODEL |  | CAPACITY | POWER | FURNACE MODEL     |
|----------------------|--|----------|-------|-------------------|
| *FE4AN(B.F)005L      |  | 1.00     | 1.00  |                   |
| FE4AN(B.F)003L       |  | 0.96     | 1.00  |                   |
| FE4AN(B)006L         |  | 0.98     | 1.08  |                   |
| FE4AN(F)002L         |  | 0.96     | 1.00  |                   |
| CAP**3617AL*         |  | 0.98     | 1.03  | 56CV(A.X)070-12   |
| CNPV*3617AL*         |  | 0.98     | 1.08  | 56CV(A.X)070-12   |
| CNPV*3717AL*         |  | 0.97     | 1.01  | 56CV(A.X)070-12   |
| CNPV*4217AL*         |  | 0.96     | 1.02  | 56CV(A.X)070-12   |
| CSPH*3612AL*         |  | 1.00     | 1.05  | 56CV(A.X)070-12   |
| CSPH*4212AL*         |  | 1.00     | 1.05  | 56CV(A.X)070-12   |
| CAP**3617AL*         |  | 0.98     | 1.03  | 56CV(A.X)080-16   |
| CAP**3621AL*         |  | 0.98     | 1.03  | 56CV(A.X)080-16   |
| CAP**4221AL*         |  | 0.99     | 1.04  | 56CV(A.X)080-16   |
| CNPV*3617AL*         |  | 0.97     | 1.01  | 56CV(A.X)080-16   |
| CNPV*3621AL*         |  | 0.97     | 1.01  | 56CV(A.X)080-16   |
| CNPV*3717AL*         |  | 0.97     | 0.97  | 56CV(A.X)080-16   |
| CNPV*4217AL*         |  | 0.96     | 1.00  | 56CV(A.X)080-16   |
| CNPV*4221AL*         |  | 0.96     | 1.00  | 56CV(A.X)080-16   |
| CSPH*3612AL*         |  | 1.00     | 1.00  | 56CV(A.X)080-16   |
| CSPH*4212AL*         |  | 1.01     | 1.01  | 56CV(A.X)080-16   |
| CAP**3617AL*         |  | 0.98     | 1.03  | 59"N*A060V17***14 |
| CAP**3621AL*         |  | 0.98     | 1.03  | 59"N*A060V17***14 |
| CAP**4221AL*         |  | 0.98     | 1.03  | 59"N*A060V17***14 |
| CNPV*3617AL*         |  | 0.97     | 1.07  | 59"N*A060V17***14 |
| CNPV*4221AL*         |  | 0.98     | 1.06  | 59"N*A060V17***14 |
| CNPV*3617AL*         |  | 0.94     | 1.03  | 59"N*A060V17***14 |
| CNPV*3621AL*         |  | 0.94     | 1.03  | 59"N*A060V17***14 |
| CNPV*3717AL*         |  | 0.97     | 1.02  | 59"N*A060V17***14 |
| CNPV*4221AL*         |  | 0.95     | 1.04  | 59"N*A060V17***14 |
| CSPH*3612AL*         |  | 0.99     | 1.04  | 59"N*A060V17***14 |
| CSPH*4212AL*         |  | 1.00     | 1.05  | 59"N*A060V17***14 |
| CAP**3617AL*         |  | 0.98     | 1.03  | 59"N*A080V17***14 |
| CAP**3621AL*         |  | 0.98     | 1.03  | 59"N*A080V17***14 |
| CAP**4221AL*         |  | 0.99     | 1.04  | 59"N*A080V17***14 |
| CNPV*3617AL*         |  | 0.98     | 1.06  | 59"N*A080V17***14 |
| CNPV*4221AL*         |  | 0.99     | 1.09  | 59"N*A080V17***14 |
| CNPV*3617AL*         |  | 0.95     | 1.04  | 59"N*A080V17***14 |
| CNPV*3621AL*         |  | 0.95     | 0.99  | 59"N*A080V17***14 |
| CNPV*3717AL*         |  | 0.97     | 1.02  | 59"N*A080V17***14 |
| CNPV*4221AL*         |  | 0.97     | 1.02  | 59"N*A080V17***14 |
| CSPH*3612AL*         |  | 1.00     | 1.05  | 59"N*A080V17***14 |
| CSPH*4212AL*         |  | 1.00     | 1.05  | 59"N*A080V17***14 |
| CAP**3621AL*         |  | 0.98     | 1.03  | 59MNT*A060V21**20 |
| CAP**4221AL*         |  | 0.99     | 1.04  | 59MNT*A060V21**20 |
| CAP**4224AL*         |  | 0.99     | 1.04  | 59MNT*A060V21**20 |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |                  |
|----------------------------------|-----------------|-------|----------------|-------|------------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model    |
| FV4CN(B,F)003L                   | 0.94            | 0.94  | 0.99           | 0.94  |                  |
| FV4CNF002L                       | 0.94            | 0.94  | 1.00           | 0.97  |                  |
| CAP**2414AL*                     | 0.94            | 0.99  | 1.08           | 1.12  | 58PH*045-08      |
| CAP**2417AL*                     | 0.94            | 0.99  | 1.09           | 1.12  | 58PH*045-08      |
| CAP**3014AL*                     | 0.95            | 0.95  | 1.08           | 1.11  | 58PH*045-08      |
| CAP**3017AL*                     | 0.95            | 0.95  | 1.09           | 1.11  | 58PH*045-08      |
| CNPV*2414AL*                     | 0.93            | 0.98  | 1.08           | 1.12  | 58PH*045-08      |
| CNPV*2417AL*                     | 0.93            | 0.98  | 1.08           | 1.12  | 58PH*045-08      |
| CNPV*3014AL*                     | 0.95            | 1.00  | 1.08           | 1.11  | 58PH*045-08      |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.09           | 1.11  | 58PH*045-08      |
| CNPV*3117AL*                     | 0.95            | 0.95  | 1.12           | 1.11  | 58PH*045-08      |
| CAP**2414AL*                     | 0.93            | 0.93  | 1.08           | 1.08  | 58CTW045-12      |
| CAP**2417AL*                     | 0.94            | 0.94  | 1.08           | 1.07  | 58CTW045-12      |
| CAP**3014AL*                     | 0.93            | 0.93  | 1.10           | 1.09  | 58CTW045-12      |
| CAP**3017AL*                     | 0.93            | 0.93  | 1.11           | 1.09  | 58CTW045-12      |
| CNPV*3117AL*                     | 0.94            | 0.94  | 1.12           | 1.08  | 58CTW045-12      |
| CSPH*3012AL*                     | 0.93            | 0.93  | 1.11           | 1.08  | 58CTW045-12      |
| CAP**2417AL*                     | 0.93            | 0.93  | 1.11           | 1.09  | 58CTW070-16      |
| CNPV*3017AL*                     | 0.95            | 0.95  | 1.12           | 1.05  | 58CTW070-16      |
| CNPV*3117AL*                     | 0.97            | 1.01  | 1.09           | 1.08  | 58CTW070-16      |
| CSPH*2412AL*                     | 0.93            | 0.93  | 1.11           | 1.07  | 58CTW070-16      |
| CNPV*2417AL*                     | 0.93            | 0.98  | 1.08           | 1.07  | 58CTW070-16      |
| CNPV*3017AL*                     | 0.93            | 0.93  | 1.11           | 1.08  | 58CTW070-16      |
| CNPV*3117AL*                     | 0.95            | 0.95  | 1.12           | 1.05  | 58CTW070-16      |
| CSPH*2412AL*                     | 0.97            | 1.01  | 1.09           | 1.08  | 58CTW070-16      |
| CSPH*3012AL*                     | 0.93            | 0.93  | 1.11           | 1.07  | 58CTW070-16      |
| CSPH*2412AL*                     | 0.94            | 0.94  | 1.13           | 1.15  | 58CTW090-16      |
| CSPH*3012AL*                     | 0.95            | 0.95  | 1.14           | 1.12  | 58CTW090-16      |
| CAP**2414AL*                     | 0.95            | 1.00  | 1.08           | 1.13  | 59*P2A040E14**10 |
| CAP**2417AL*                     | 0.93            | 0.98  | 1.08           | 1.13  | 59*P2A040E14**10 |
| CAP**3014AL*                     | 0.94            | 0.99  | 1.07           | 1.12  | 59*P2A040E14**10 |
| CAP**3017AL*                     | 0.95            | 1.00  | 1.08           | 1.12  | 59*P2A040E14**10 |
| CNPV*2414AL*                     | 0.93            | 0.97  | 1.07           | 1.13  | 59*P2A040E14**10 |
| CNPV*2417AL*                     | 0.93            | 0.97  | 1.07           | 1.13  | 59*P2A040E14**10 |
| CNPV*3014AL*                     | 0.94            | 0.99  | 1.07           | 1.12  | 59*P2A040E14**10 |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.08           | 1.12  | 59*P2A040E14**10 |
| CNPV*3117AL*                     | 0.94            | 0.94  | 1.11           | 1.11  | 59*P2A040E14**10 |
| CSPH*2412AL*                     | 0.96            | 1.00  | 1.10           | 1.23  | 59*P2A040E17**12 |
| CSPH*3012AL*                     | 0.97            | 1.01  | 1.09           | 1.10  | 59*P2A040E17**12 |
| CAP**2417AL*                     | 0.93            | 0.98  | 1.07           | 1.12  | 59*P2A040E17**12 |
| CAP**3017AL*                     | 0.95            | 1.00  | 1.08           | 1.13  | 59*P2A040E17**12 |
| CNPV*3017AL*                     | 0.95            | 1.05  | 1.08           | 1.13  | 59*P2A040E17**12 |
| CNPV*3017AL*                     | 0.95            | 1.05  | 1.08           | 1.12  | 59*P2A040E17**12 |
| CNPV*3117AL*                     | 0.97            | 1.01  | 1.09           | 1.10  | 59*P2A040E17**12 |
| CNPV*2417AL*                     | 0.93            | 0.97  | 1.07           | 1.13  | 59*P2A040E17**12 |
| CNPV*3017AL*                     | 0.95            | 1.00  | 1.08           | 1.12  | 59*P2A040E17**12 |
| CNPV*3117AL*                     | 0.97            | 1.01  | 1.09           | 1.10  | 59*P2A040E17**12 |
| CSPH*2412AL*                     | 0.96            | 1.00  | 1.10           | 1.25  | 59*P2A040E17**12 |
| CAP**2414AL*                     | 0.94            | 0.94  | 1.09           | 1.10  | 59*P2A060E14**12 |
| CAP**2417AL*                     | 0.95            | 0.95  | 1.10           | 1.10  | 59*P2A060E14**12 |
| CAP**3014AL*                     | 0.95            | 0.93  | 1.11           | 1.11  | 59*P2A060E14**12 |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |       |                 |
|----------------------------------|-----------------|-------|----------------|-------|-----------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model   |
| CAP**3017AL*                     | 0.94            | 0.94  | 1.12           | 1.11  | 59*P2A060E4**12 |
| CNPV*2414AL*                     | 0.94            | 0.99  | 1.09           | 1.09  | 59*P2A060E4**12 |
| CNPV*2417AL*                     | 0.94            | 0.99  | 1.09           | 1.09  | 59*P2A060E4**12 |
| CNPV*3014AL*                     | 0.93            | 0.98  | 1.11           | 1.11  | 59*P2A060E4**12 |
| CNPV*3017AL*                     | 0.94            | 0.94  | 1.12           | 1.11  | 59*P2A060E4**12 |
| CNPV*3117AL*                     | 0.96            | 0.96  | 1.13           | 1.09  | 59*P2A060E4**12 |
| CSFH*2412AL*                     | 0.95            | 0.95  | 1.09           | 1.10  | 59*P2A060E4**12 |
| CSFH*3012AL*                     | 0.94            | 0.94  | 1.12           | 1.10  | 59*P2A060E4**12 |
| CNPV*2417AL*                     | 0.96            | 1.00  | 1.11           | 1.13  | 59*P2A060E7**14 |
| CSFH*2412AL*                     | 0.95            | 0.95  | 1.13           | 1.15  | 59*P2A060E7**14 |
| CNPV*2417AL*                     | 0.96            | 1.00  | 1.10           | 1.10  | 59*P2A080E7**16 |
| CSFH*2412AL*                     | 0.94            | 0.94  | 1.12           | 1.12  | 59*P2A080E7**16 |
| CAP**2414AL*                     | 0.93            | 1.03  | 1.07           | 1.17  | 59*P5A040E4**10 |
| CAP**2417AL*                     | 0.94            | 1.04  | 1.07           | 1.17  | 59*P5A040E4**10 |
| CAP**3014AL*                     | 0.95            | 1.05  | 1.07           | 1.16  | 59*P5A040E4**10 |
| CAP**3017AL*                     | 0.95            | 1.05  | 1.07           | 1.15  | 59*P5A040E4**10 |
| CNPV*2414AL*                     | 0.93            | 1.03  | 1.07           | 1.17  | 59*P5A040E4**10 |
| CNPV*2417AL*                     | 0.93            | 1.03  | 1.07           | 1.17  | 59*P5A040E4**10 |
| CNPV*3014AL*                     | 0.95            | 1.05  | 1.07           | 1.16  | 59*P5A040E4**10 |
| CNPV*3017AL*                     | 0.95            | 1.05  | 1.07           | 1.15  | 59*P5A040E4**10 |
| CNPV*3117AL*                     | 0.96            | 1.05  | 1.08           | 1.13  | 59*P5A040E4**10 |
| CSFH*2412AL*                     | 0.95            | 1.05  | 1.07           | 1.17  | 59*P5A040E4**10 |
| CSFH*3012AL*                     | 0.95            | 1.05  | 1.07           | 1.15  | 59*P5A040E4**10 |
| CAP**2417AL*                     | 0.93            | 0.97  | 1.07           | 1.14  | 59*P5A040E7**12 |
| CAP**3017AL*                     | 0.93            | 0.98  | 1.07           | 1.13  | 59*P5A040E7**12 |
| CNPV*2417AL*                     | 0.94            | 1.04  | 1.08           | 1.15  | 59*P5A040E7**12 |
| CNPV*3017AL*                     | 0.93            | 1.03  | 1.07           | 1.13  | 59*P5A040E7**12 |
| CNPV*3117AL*                     | 0.96            | 1.00  | 1.09           | 1.12  | 59*P5A040E7**12 |
| CNPV*2417AL*                     | 0.92            | 1.01  | 1.07           | 1.14  | 59*P5A040E7**12 |
| CNPV*3017AL*                     | 0.93            | 0.98  | 1.07           | 1.13  | 59*P5A040E7**12 |
| CNPV*3117AL*                     | 0.94            | 0.99  | 1.10           | 1.12  | 59*P5A040E7**12 |
| CSFH*2412AL*                     | 0.96            | 1.05  | 1.10           | 1.23  | 59*P5A040E7**12 |
| CSFH*3012AL*                     | 0.93            | 0.98  | 1.08           | 1.13  | 59*P5A040E7**12 |
| CNPV*2417AL*                     | 0.96            | 1.01  | 1.10           | 1.17  | 59*P5A060E7**14 |
| CSFH*2412AL*                     | 0.97            | 1.01  | 1.10           | 1.16  | 59*P5A060E7**14 |

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DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>° F (° C) | EVA/P AIR<br>EWB<br>° F (° C) | 24VNA924B / FE4ANF002L Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |       |       |      |
|------------------|-------------------------------|--------------------------------------------------------------------------------------------------|-------------------------|--------|------------------|---------|-------------------------|--------|------------------|-----------|-------------------------|--------|------------------|-----------|-------------------------|--------|------------------|-----------|-------|-------|------|
|                  |                               | 105 (40.5)                                                                                       |                         |        |                  | 95 (35) |                         |        |                  | 85 (29.4) |                         |        |                  | 75 (23.9) |                         |        |                  | 65 (18.3) |       |       |      |
|                  |                               | ID SCFM                                                                                          | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW |           |       |       |      |
| STAGE 5          |                               |                                                                                                  |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |       |       |      |
| 75 (23.9)        | 72<br>(22.2)                  | 642                                                                                              | 24.23                   | 9.92   | 2.44             | 608     | 25.33                   | 10.31  | 2.12             | 634       | 26.93                   | 10.95  | 1.84             | 663       | 28.54                   | 11.60  | 1.58             | 708       | 30.28 | 12.32 | 1.33 |
|                  | 67<br>(19.4)                  |                                                                                                  | 22.01                   | 12.96  | 2.42             |         | 23.01                   | 13.22  | 2.10             |           | 24.45                   | 14.00  | 1.83             |           | 25.91                   | 14.82  | 1.58             |           | 27.51 | 15.77 | 1.34 |
|                  | 63<br>(17.2)                  |                                                                                                  | 20.38                   | 15.34  | 2.39             |         | 21.31                   | 15.50  | 2.08             |           | 22.64                   | 16.40  | 1.82             |           | 24.00                   | 17.33  | 1.57             |           | 25.48 | 18.47 | 1.35 |
|                  | 57<br>(13.9)                  |                                                                                                  | 18.45                   | 18.45  | 2.36             |         | 19.08                   | 18.80  | 2.05             |           | 20.28                   | 19.87  | 1.80             |           | 21.49                   | 20.99  | 1.57             |           | 22.82 | 22.37 | 1.36 |
|                  | 72<br>(22.2)                  |                                                                                                  | 24.17                   | 12.95  | 2.44             |         | 608                     | 25.27  | 13.22            |           | 2.12                    | 634    | 26.87            |           | 14.00                   | 1.84   | 663              |           | 28.48 | 14.82 | 1.58 |
| 67<br>(19.4)     | 21.96                         | 15.96                                                                                            | 2.42                    | 22.96  | 16.09            | 2.10    |                         | 24.40  | 17.02            | 1.83      | 25.86                   |        | 17.99            | 1.58      | 27.45                   | 19.17  |                  | 1.34      |       |       |      |
| 63<br>(17.2)     | 20.36                         | 18.31                                                                                            | 2.39                    | 21.28  | 18.35            | 2.08    |                         | 22.61  | 19.39            | 1.82      | 23.97                   |        | 20.49            | 1.57      | 25.45                   | 21.85  |                  | 1.35      |       |       |      |
| 57<br>(13.9)     | 19.56                         | 19.56                                                                                            | 2.38                    | 20.08  | 20.08            | 2.07    |                         | 21.29  | 21.29            | 1.81      | 22.54                   |        | 22.54            | 1.57      | 23.97                   | 23.97  |                  | 1.35      |       |       |      |
| STAGE 3          |                               |                                                                                                  |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |       |       |      |
| 75 (23.9)        | 72<br>(22.2)                  | 437                                                                                              | 16.80                   | 6.88   | 1.49             | 415     | 17.53                   | 7.13   | 1.28             | 437       | 18.69                   | 7.80   | 1.10             | 456       | 19.82                   | 8.06   | 0.92             | 484       | 21.04 | 8.55  | 0.76 |
|                  | 67<br>(19.4)                  |                                                                                                  | 15.18                   | 8.96   | 1.50             |         | 15.85                   | 9.13   | 1.28             |           | 16.89                   | 9.72   | 1.11             |           | 17.91                   | 10.28  | 0.95             |           | 18.99 | 10.93 | 0.79 |
|                  | 63<br>(17.2)                  |                                                                                                  | 13.98                   | 10.59  | 1.50             |         | 14.60                   | 10.69  | 1.28             |           | 15.56                   | 11.37  | 1.13             |           | 16.49                   | 12.01  | 0.97             |           | 17.48 | 12.77 | 0.82 |
|                  | 57<br>(13.9)                  |                                                                                                  | 12.63                   | 12.63  | 1.49             |         | 12.99                   | 12.94  | 1.29             |           | 13.83                   | 13.75  | 1.14             |           | 14.64                   | 14.51  | 1.00             |           | 15.53 | 15.43 | 0.86 |
|                  | 72<br>(22.2)                  |                                                                                                  | 16.75                   | 8.99   | 1.49             |         | 415                     | 17.48  | 9.16             |           | 1.28                    | 18.64  | 9.75             |           | 1.10                    | 456    | 19.77            |           | 10.32 | 0.92  | 484  |
| 67<br>(19.4)     | 15.14                         | 11.05                                                                                            | 1.50                    | 15.81  | 11.13            | 1.28    |                         | 16.85  | 11.84            | 1.11      | 17.87                   | 12.51  | 0.95             | 18.95     | 13.31                   |        | 0.79             |           |       |       |      |
| 63<br>(17.2)     | 13.97                         | 12.66                                                                                            | 1.50                    | 14.59  | 12.68            | 1.28    |                         | 15.54  | 13.48            | 1.13      | 16.47                   | 14.23  | 0.97             | 17.46     | 15.14                   |        | 0.82             |           |       |       |      |
| 57<br>(13.9)     | 13.43                         | 13.43                                                                                            | 1.50                    | 13.78  | 13.78            | 1.29    |                         | 14.66  | 14.66            | 1.13      | 15.51                   | 15.51  | 0.99             | 16.47     | 16.47                   |        | 0.84             |           |       |       |      |
| STAGE 1          |                               |                                                                                                  |                         |        |                  |         |                         |        |                  |           |                         |        |                  |           |                         |        |                  |           |       |       |      |
| 75 (23.9)        | 72<br>(22.2)                  | 362                                                                                              | 13.91                   | 5.70   | 1.21             | 222     | 8.34                    | 3.43   | 0.52             | 234       | 8.89                    | 3.65   | 0.44             | 229       | 9.31                    | 3.80   | 0.37             | 245       | 9.90  | 4.05  | 0.29 |
|                  | 67<br>(19.4)                  |                                                                                                  | 12.50                   | 7.42   | 1.22             |         | 7.48                    | 4.49   | 0.53             |           | 7.97                    | 4.78   | 0.46             |           | 8.34                    | 4.91   | 0.40             |           | 8.86  | 5.24  | 0.33 |
|                  | 63<br>(17.2)                  |                                                                                                  | 11.48                   | 8.77   | 1.22             |         | 6.85                    | 5.34   | 0.53             |           | 7.30                    | 5.67   | 0.47             |           | 7.63                    | 5.79   | 0.41             |           | 8.11  | 6.18  | 0.35 |
|                  | 57<br>(13.9)                  |                                                                                                  | 10.41                   | 10.41  | 1.22             |         | 6.25                    | 6.25   | 0.54             |           | 6.65                    | 6.65   | 0.48             |           | 6.87                    | 6.87   | 0.43             |           | 7.32  | 7.32  | 0.37 |
|                  | 72<br>(22.2)                  |                                                                                                  | 13.87                   | 7.46   | 1.21             |         | 222                     | 8.31   | 4.53             |           | 0.52                    | 8.86   | 4.82             |           | 0.44                    | 234    | 9.28             |           | 4.96  | 0.37  | 245  |
| 67<br>(19.4)     | 12.47                         | 9.17                                                                                             | 1.22                    | 7.45   | 5.59             | 0.53    |                         | 7.94   | 5.94             | 0.46      | 8.31                    | 6.06   | 0.40             | 8.83      | 6.48                    |        | 0.33             |           |       |       |      |
| 63<br>(17.2)     | 11.48                         | 10.51                                                                                            | 1.22                    | 6.85   | 6.43             | 0.53    |                         | 7.30   | 6.83             | 0.47      | 7.62                    | 6.93   | 0.41             | 8.10      | 7.41                    |        | 0.35             |           |       |       |      |
| 57<br>(13.9)     | 11.08                         | 11.08                                                                                            | 1.22                    | 6.68   | 6.68             | 0.54    |                         | 7.10   | 7.10             | 0.48      | 7.33                    | 7.33   | 0.42             | 7.81      | 7.81                    |        | 0.36             |           |       |       |      |

## 24VNA924B

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| CSPH*4212AL*         | 1.00     | 1.00  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 1.00     | 1.00  | 58CV(A,X)090-16  |
| CSPH*4812AL*         | 1.00     | 1.00  | 59*N*AO60V17**14 |
| CSPH*4812AL*         | 1.00     | 1.00  | 59*N*AO80V17**14 |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |                  |  | Furnace Model |
|----------------------------------|-----------------|-------|----------------|-------|------------------|--|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power |                  |  |               |
| *FV4CNF002L                      | 1.00            | 1.00  | 1.00           | 1.00  |                  |  |               |
| FV4CNU(B)F003L                   | 1.04            | 0.95  | 0.99           | 0.98  |                  |  |               |
| FV4CNF002L                       | 1.03            | 0.94  | 1.00           | 1.00  | 59*P2A040E14**10 |  |               |
| CAP**24144L*                     | 1.03            | 0.99  | 1.08           | 1.16  | 59*P2A060E14**12 |  |               |
| CAP**24144L*                     | 1.03            | 0.93  | 1.09           | 1.13  | 59*P2A060E14**12 |  |               |
| CAP**24144L*                     | 1.02            | 1.02  | 1.07           | 1.19  | 59*P5A040E14**10 |  |               |
| CAP**24144L*                     | 1.02            | 0.97  | 1.08           | 1.15  | 59PH*045-08      |  |               |
| CAP**24144L*                     | 1.02            | 0.92  | 1.08           | 1.11  | 58CTW045-12      |  |               |
| CAP**24174L*                     | 1.02            | 0.97  | 1.08           | 1.16  | 59*P2A040E14**10 |  |               |
| CAP**24174L*                     | 1.02            | 0.97  | 1.07           | 1.15  | 59*P2A040E17**12 |  |               |
| CAP**24174L*                     | 1.03            | 0.94  | 1.10           | 1.14  | 59*P2A060E14**12 |  |               |
| CAP**24174L*                     | 1.02            | 1.02  | 1.07           | 1.19  | 59*P5A040E14**10 |  |               |
| CAP**24174L*                     | 1.01            | 0.96  | 1.07           | 1.17  | 59*P5A040E17**12 |  |               |
| CAP**24174L*                     | 1.03            | 0.98  | 1.09           | 1.16  | 59PH*045-08      |  |               |
| CAP**24174L*                     | 1.03            | 0.93  | 1.08           | 1.10  | 58CTW045-12      |  |               |
| CAP**24174L*                     | 1.03            | 0.93  | 1.11           | 1.13  | 58CTW070-16      |  |               |
| CAP**30144L*                     | 1.03            | 0.98  | 1.07           | 1.16  | 59*P2A040E14**10 |  |               |
| CAP**30144L*                     | 1.04            | 0.95  | 1.11           | 1.16  | 59*P2A060E14**12 |  |               |
| CAP**30144L*                     | 1.03            | 1.03  | 1.07           | 1.19  | 59*P5A040E14**10 |  |               |
| CAP**30144L*                     | 1.03            | 0.94  | 1.08           | 1.15  | 58PH*045-08      |  |               |
| CAP**30144L*                     | 1.03            | 0.94  | 1.10           | 1.13  | 58CTW045-12      |  |               |
| CAP**30174L*                     | 1.03            | 0.99  | 1.08           | 1.16  | 59*P2A040E14**10 |  |               |
| CAP**30174L*                     | 1.03            | 0.99  | 1.12           | 1.16  | 59*P2A040E17**12 |  |               |
| CAP**30174L*                     | 1.04            | 0.95  | 1.11           | 1.12  | 59*P2A060E14**12 |  |               |
| CAP**30174L*                     | 1.03            | 1.03  | 1.07           | 1.18  | 59*P5A040E14**10 |  |               |
| CAP**30174L*                     | 1.02            | 0.97  | 1.07           | 1.17  | 59*P5A040E17**12 |  |               |
| CAP**30174L*                     | 1.03            | 0.94  | 1.09           | 1.15  | 59PH*045-08      |  |               |
| CAP**30174L*                     | 1.03            | 0.94  | 1.11           | 1.13  | 58CTW045-12      |  |               |
| CAP**30174L*                     | 1.04            | 0.95  | 1.11           | 1.12  | 58CTW070-16      |  |               |
| CNPV*24174L*                     | 1.03            | 1.03  | 1.08           | 1.16  | 59*P2A040E17**12 |  |               |
| CNPV*24174L*                     | 1.04            | 0.99  | 1.11           | 1.17  | 59*P2A060E17**14 |  |               |
| CNPV*24174L*                     | 1.04            | 0.99  | 1.10           | 1.14  | 59*P2A080E17**16 |  |               |
| CNPV*24174L*                     | 1.03            | 1.03  | 1.09           | 1.11  | 58CTW070-16      |  |               |
| CNPV*30174L*                     | 1.03            | 1.03  | 1.08           | 1.16  | 59*P2A040E17**12 |  |               |
| CNPV*30174L*                     | 1.02            | 1.02  | 1.07           | 1.17  | 59*P5A040E17**12 |  |               |
| CNPV*30174L*                     | 1.04            | 0.99  | 1.11           | 1.12  | 58CTW070-16      |  |               |
| CNPV*31174L*                     | 1.06            | 1.01  | 1.09           | 1.14  | 59*P2A060E17**12 |  |               |
| CNPV*31174L*                     | 1.04            | 0.99  | 1.09           | 1.16  | 59*P5A040E17**12 |  |               |
| CNPV*31174L*                     | 1.07            | 0.97  | 1.12           | 1.10  | 58CTW070-16      |  |               |
| CNPV*24144L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 59*P2A040E14**10 |  |               |
| CNPV*24144L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 59*P2A060E14**12 |  |               |
| CNPV*24144L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 59*P5A040E14**10 |  |               |
| CNPV*24144L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 59PH*045-08      |  |               |
| CNPV*24144L*                     | 1.01            | 0.96  | 1.08           | 1.11  | 58CTW045-12      |  |               |
| CNPV*24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 59*P2A040E14**10 |  |               |
| CNPV*24174L*                     | 1.00            | 0.95  | 1.07           | 1.16  | 59*P2A040E17**12 |  |               |
| CNPV*24174L*                     | 1.02            | 0.97  | 1.09           | 1.13  | 59*P2A060E14**12 |  |               |
| CNPV*24174L*                     | 1.01            | 1.01  | 1.07           | 1.20  | 59*P5A040E14**10 |  |               |
| CNPV*24174L*                     | 0.99            | 0.99  | 1.07           | 1.17  | 59*P5A040E17**12 |  |               |
| CNPV*24174L*                     | 1.01            | 0.96  | 1.08           | 1.15  | 59PH*045-08      |  |               |

See notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>° F (° C) | EVAP AIR<br>EWB<br>° F (° C) | 24VNA0957 FEAXNP005 Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                         |        |                  |         |                         |        |                  |         |                         |           |                  |         |                         |        |                  |         |                         |        |                  |           |       |       |      |      |
|------------------|------------------------------|-----------------------------------------------------------------------------------------------|-------------------------|--------|------------------|---------|-------------------------|--------|------------------|---------|-------------------------|-----------|------------------|---------|-------------------------|--------|------------------|---------|-------------------------|--------|------------------|-----------|-------|-------|------|------|
|                  |                              | 105 (40.5)                                                                                    |                         |        |                  |         | 95 (35)                 |        |                  |         |                         | 85 (29.4) |                  |         |                         |        | 75 (23.9)        |         |                         |        |                  | 65 (18.3) |       |       |      |      |
|                  |                              | ID SCFM                                                                                       | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit    | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Sensit | Total Sys.<br>KW |           |       |       |      |      |
| 75 (23.9)        | 72                           | 608                                                                                           | 19.25                   | 8.01   | 1.62             | 608     | 25.24                   | 10.26  | 1.88             | 634     | 26.68                   | 10.84     | 1.61             | 663     | 28.11                   | 11.43  | 1.34             | 708     | 29.64                   | 12.06  | 1.07             |           |       |       |      |      |
|                  | 67                           |                                                                                               | 17.48                   | 10.88  | 1.63             |         | 22.98                   | 13.18  | 1.89             |         | 24.31                   | 13.92     | 1.63             |         | 25.64                   | 14.68  | 1.38             |         | 27.06                   | 15.57  | 1.13             |           |       |       |      |      |
|                  | 63                           |                                                                                               | 16.21                   | 13.13  | 1.64             |         | 21.29                   | 15.45  | 1.90             |         | 22.54                   | 16.31     | 1.65             |         | 23.79                   | 17.21  | 1.41             |         | 25.13                   | 18.30  | 1.17             |           |       |       |      |      |
|                  | 57                           |                                                                                               | 15.18                   | 15.18  | 1.65             |         | 19.10                   | 18.78  | 1.90             |         | 20.23                   | 19.83     | 1.66             |         | 21.37                   | 20.92  | 1.44             |         | 22.62                   | 22.29  | 1.21             |           |       |       |      |      |
|                  | 72                           |                                                                                               | 19.12                   | 10.84  | 1.61             |         | 25.12                   | 13.12  | 1.88             |         | 26.55                   | 13.85     | 1.60             |         | 27.98                   | 14.60  | 1.33             |         | 29.49                   | 15.47  | 1.07             |           |       |       |      |      |
| 80 (26.7)        | 67                           | 608                                                                                           | 17.42                   | 13.69  | 1.63             | 608     | 22.91                   | 16.02  | 1.89             | 634     | 24.24                   | 16.91     | 1.63             | 663     | 25.56                   | 17.83  | 1.38             | 708     | 26.97                   | 18.96  | 1.13             |           |       |       |      |      |
|                  | 63                           |                                                                                               | 16.26                   | 15.91  | 1.64             |         | 21.26                   | 18.28  | 1.90             |         | 22.51                   | 19.29     | 1.65             |         | 23.76                   | 20.35  | 1.41             |         | 25.10                   | 21.68  | 1.17             |           |       |       |      |      |
|                  | 57                           |                                                                                               | 16.12                   | 16.12  | 1.64             |         | 20.08                   | 20.08  | 1.90             |         | 21.23                   | 21.23     | 1.66             |         | 22.41                   | 22.41  | 1.42             |         | 23.77                   | 23.77  | 1.19             |           |       |       |      |      |
|                  | 72                           |                                                                                               | 15.62                   | 6.37   | 1.16             |         | 16.33                   | 6.64   | 1.03             |         | 17.27                   | 7.02      | 0.91             |         | 18.26                   | 7.42   | 0.78             |         | 19.32                   | 7.87   | 0.82             |           |       |       |      |      |
|                  | 67                           |                                                                                               | 14.19                   | 8.25   | 1.17             |         | 14.88                   | 8.57   | 1.04             |         | 15.74                   | 9.03      | 0.94             |         | 16.66                   | 9.56   | 0.82             |         | 17.64                   | 10.18  | 0.68             |           |       |       |      |      |
| 75 (23.9)        | 63                           | 437                                                                                           | 13.12                   | 9.74   | 1.18             | 437     | 13.79                   | 10.07  | 1.05             | 452     | 14.60                   | 10.61     | 0.96             | 475     | 15.46                   | 11.23  | 0.85             | 510     | 16.38                   | 12.00  | 0.71             |           |       |       |      |      |
|                  | 57                           |                                                                                               | 11.80                   | 11.80  | 1.18             |         | 12.35                   | 12.27  | 1.06             |         | 13.08                   | 12.91     | 0.97             |         | 13.87                   | 13.68  | 0.88             |         | 14.74                   | 14.65  | 0.76             |           |       |       |      |      |
|                  | 72                           |                                                                                               | 15.55                   | 8.23   | 1.16             |         | 16.25                   | 8.52   | 1.02             |         | 17.19                   | 8.98      | 0.91             |         | 18.17                   | 9.50   | 0.78             |         | 19.23                   | 10.12  | 0.82             |           |       |       |      |      |
|                  | 67                           |                                                                                               | 14.14                   | 10.11  | 1.17             |         | 14.83                   | 10.44  | 1.04             |         | 15.69                   | 10.99     | 0.94             |         | 16.60                   | 11.63  | 0.82             |         | 17.57                   | 12.43  | 0.67             |           |       |       |      |      |
|                  | 63                           |                                                                                               | 13.11                   | 11.59  | 1.18             |         | 13.77                   | 11.94  | 1.05             |         | 14.58                   | 12.56     | 0.96             |         | 15.44                   | 13.30  | 0.85             |         | 16.36                   | 14.24  | 0.71             |           |       |       |      |      |
| 80 (26.7)        | 57                           | 437                                                                                           | 12.51                   | 12.51  | 1.18             | 437     | 13.05                   | 13.05  | 1.05             | 452     | 13.78                   | 13.78     | 0.97             | 475     | 14.60                   | 14.60  | 0.86             | 510     | 15.55                   | 15.55  | 0.74             |           |       |       |      |      |
|                  | 72                           |                                                                                               | 6.36                    | 2.59   | 0.47             |         | 9.26                    | 3.75   | 0.47             |         | 9.75                    | 3.95      | 0.47             |         | 10.23                   | 4.15   | 0.43             |         | 10.72                   | 4.35   | 0.36             |           |       |       |      |      |
|                  | 67                           |                                                                                               | 10.72                   | 6.18   | 0.76             |         | 8.39                    | 4.68   | 0.48             |         | 8.84                    | 4.89      | 0.49             |         | 9.27                    | 5.09   | 0.47             |         | 9.70                    | 5.30   | 0.40             |           |       |       |      |      |
|                  | 63                           |                                                                                               | 9.90                    | 7.24   | 0.76             |         | 7.74                    | 5.40   | 0.49             |         | 8.15                    | 5.61      | 0.51             |         | 8.56                    | 5.83   | 0.49             |         | 8.96                    | 6.04   | 0.44             |           |       |       |      |      |
|                  | 57                           |                                                                                               | 8.82                    | 8.81   | 0.77             |         | 6.85                    | 6.46   | 0.49             |         | 7.22                    | 6.68      | 0.52             |         | 7.59                    | 6.90   | 0.52             |         | 7.95                    | 7.12   | 0.48             |           |       |       |      |      |
| 80 (26.7)        | 72                           | 342                                                                                           | 11.79                   | 6.17   | 0.75             | 250     | 9.23                    | 4.68   | 0.47             | 250     | 9.72                    | 4.88      | 0.47             | 250     | 10.20                   | 5.09   | 0.43             | 250     | 10.68                   | 5.30   | 0.36             |           |       |       |      |      |
|                  | 67                           |                                                                                               | 10.69                   | 7.53   | 0.76             |         | 8.37                    | 5.60   | 0.48             |         | 8.81                    | 5.82      | 0.49             |         | 9.25                    | 6.03   | 0.47             |         | 9.68                    | 6.24   | 0.40             |           |       |       |      |      |
|                  | 63                           |                                                                                               | 9.88                    | 8.60   | 0.76             |         | 7.72                    | 6.32   | 0.49             |         | 8.14                    | 6.54      | 0.51             |         | 8.54                    | 6.76   | 0.49             |         | 8.95                    | 6.98   | 0.44             |           |       |       |      |      |
|                  | 57                           |                                                                                               | 9.35                    | 9.35   | 0.77             |         | 7.09                    | 7.09   | 0.49             |         | 7.40                    | 7.40      | 0.52             |         | 7.70                    | 7.70   | 0.51             |         | 8.00                    | 8.00   | 0.48             |           |       |       |      |      |
|                  | 72                           |                                                                                               | 342                     | 3.18   | 1.29             |         | 0.24                    | 222    | 8.99             |         | 3.64                    | 0.47      | 234              |         | 9.59                    | 3.89   | 0.48             |         | 229                     | 9.99   | 4.06             | 0.44      | 245   | 10.66 | 4.33 | 0.36 |
| 67               | 10.72                        | 6.18                                                                                          |                         | 0.76   | 8.13             | 4.46    | 0.48                    |        | 8.68             | 4.76    | 0.50                    | 9.04      |                  | 4.92    | 0.48                    | 9.65   | 5.25             | 0.41    |                         |        |                  |           |       |       |      |      |
| 63               | 9.90                         | 7.24                                                                                          |                         | 0.76   | 7.49             | 5.09    | 0.49                    |        | 8.00             | 5.44    | 0.51                    | 8.34      |                  | 5.58    | 0.50                    | 8.91   | 5.98             | 0.44    |                         |        |                  |           |       |       |      |      |
| 57               | 8.82                         | 8.81                                                                                          |                         | 0.77   | 6.63             | 6.02    | 0.49                    |        | 7.09             | 6.43    | 0.52                    | 7.39      |                  | 6.56    | 0.52                    | 7.90   | 7.04             | 0.48    |                         |        |                  |           |       |       |      |      |
| 72               | 342                          | 11.79                                                                                         |                         | 6.17   | 0.75             | 222     | 8.96                    |        | 4.47             | 0.47    | 234                     | 9.55      |                  | 4.76    | 0.47                    | 229    | 9.96             | 4.92    |                         | 0.44   | 245              | 10.62     |       | 5.26  | 0.36 |      |
| 67               |                              | 10.69                                                                                         | 7.53                    | 0.76   | 8.11             |         | 5.28                    | 0.48   | 8.66             | 5.63    |                         | 0.50      | 9.02             | 5.78    | 0.48                    |        | 9.63             | 6.18    | 0.41                    |        |                  |           |       |       |      |      |
| 63               |                              | 9.88                                                                                          | 8.60                    | 0.76   | 7.48             |         | 5.91                    | 0.49   | 7.99             | 6.31    |                         | 0.51      | 8.33             | 6.44    | 0.50                    |        | 8.89             | 6.91    | 0.44                    |        |                  |           |       |       |      |      |
| 57               |                              | 9.35                                                                                          | 9.35                    | 0.77   | 6.73             |         | 6.73                    | 0.49   | 7.19             | 7.19    |                         | 0.52      | 7.40             | 7.40    | 0.52                    |        | 7.93             | 7.93    | 0.48                    |        |                  |           |       |       |      |      |
| 72               |                              | 342                                                                                           | 3.18                    | 1.29   | 0.24             |         | 222                     | 8.99   | 3.64             | 0.47    |                         | 234       | 9.59             | 3.89    | 0.48                    |        | 229              | 9.99    | 4.06                    | 0.44   |                  | 245       | 10.66 | 4.33  | 0.36 |      |
| 67               | 10.72                        |                                                                                               | 6.18                    | 0.76   | 8.13             | 4.46    |                         | 0.48   | 8.68             | 4.76    | 0.50                    |           | 9.04             | 4.92    | 0.48                    | 9.65   |                  | 5.25    | 0.41                    |        |                  |           |       |       |      |      |
| 63               | 9.90                         |                                                                                               | 7.24                    | 0.76   | 7.49             | 5.09    |                         | 0.49   | 8.00             | 5.44    | 0.51                    |           | 8.34             | 5.58    | 0.50                    | 8.91   |                  | 5.98    | 0.44                    |        |                  |           |       |       |      |      |
| 57               | 8.82                         |                                                                                               | 8.81                    | 0.77   | 6.63             | 6.02    |                         | 0.49   | 7.09             | 6.43    | 0.52                    |           | 7.39             | 6.56    | 0.52                    | 7.90   |                  | 7.04    | 0.48                    |        |                  |           |       |       |      |      |
| 72               | 342                          |                                                                                               | 11.79                   | 6.17   | 0.75             | 222     |                         | 8.96   | 4.47             | 0.47    | 234                     |           | 9.55             | 4.76    | 0.47                    | 229    |                  | 9.96    | 4.92                    | 0.44   | 245              |           | 10.62 | 5.26  | 0.36 |      |
| 67               |                              | 10.69                                                                                         | 7.53                    | 0.76   | 8.11             |         | 5.28                    | 0.48   | 8.66             | 5.63    |                         | 0.50      | 9.02             | 5.78    | 0.48                    |        | 9.63             | 6.18    | 0.41                    |        |                  |           |       |       |      |      |
| 63               |                              | 9.88                                                                                          | 8.60                    | 0.76   | 7.48             |         | 5.91                    | 0.49   | 7.99             | 6.31    |                         | 0.51      | 8.33             | 6.44    | 0.50                    |        | 8.89             | 6.91    | 0.44                    |        |                  |           |       |       |      |      |
| 57               |                              | 9.35                                                                                          | 9.35                    | 0.77   | 6.73             |         | 6.73                    | 0.49   | 7.19             | 7.19    |                         | 0.52      | 7.40             | 7.40    | 0.52                    |        | 7.93             | 7.93    | 0.48                    |        |                  |           |       |       |      |      |

## DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

## 24VNA925

|              | COOLING INDOOR MODEL | CAPACITY | POWER             | FURNACE MODEL    |
|--------------|----------------------|----------|-------------------|------------------|
| FURNACE      | *FE4AN(B,F)005L      | 1.00     | 1.00              |                  |
|              | FE4AN(B,F)003L       | 0.96     | 0.98              |                  |
|              | FE4ANB006L           | 0.98     | 1.07              |                  |
|              | FE4ANF002L           | 0.96     | 0.98              |                  |
|              | CAP**3614AL*         | 0.98     | 1.01              | 58CV(A,X)070-12  |
|              | CAP**3617AL*         | 0.98     | 1.01              | 58CV(A,X)070-12  |
|              | CNPH*3617AL*         | 0.98     | 1.02              | 58CV(A,X)070-12  |
|              | CNPH*3617AL*         | 0.97     | 0.99              | 58CV(A,X)070-12  |
|              | CNPH*3617AL*         | 0.98     | 1.01              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.98     | 1.01              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.99     | 0.99              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.97     | 0.99              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.98     | 0.98              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.96     | 0.98              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.96     | 0.98              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 1.00     | 1.00              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 1.01     | 1.01              | 58CV(A,X)090-16  |
|              | CNPH*3617AL*         | 0.98     | 1.02              | 59*N*A060V17**14 |
|              | CNPH*3617AL*         | 0.98     | 1.01              | 59*N*A060V17**14 |
|              | CNPH*3617AL*         | 0.98     | 1.01              | 59*N*A060V17**14 |
| CNPH*3617AL* | 0.98                 | 1.11     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.12     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.94                 | 1.02     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.94                 | 1.02     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.00     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.95                 | 1.03     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.99                 | 1.02     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 1.00                 | 1.02     | 59*N*A060V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.01     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.01     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.01     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.99                 | 1.02     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.07     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.99                 | 1.08     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.95                 | 1.03     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.95                 | 0.99     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.00     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.00     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 1.00                 | 1.02     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 1.00                 | 1.02     | 59*N*A080V17**14  |                  |
| CNPH*3617AL* | 0.98                 | 1.01     | 59NINTA060V21**20 |                  |
| CNPH*3617AL* | 0.99                 | 1.02     | 59NINTA060V21**20 |                  |
| CNPH*3617AL* | 0.99                 | 1.02     | 59NINTA060V21**20 |                  |
| CNPH*3617AL* | 0.98                 | 1.01     | 59NINTA060V21**20 |                  |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |                  |  | Furnace Model |
|----------------------------------|-----------------|-------|----------------|-------|------------------|--|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power |                  |  |               |
| FV4CN(B F)003L                   | 0.94            | 0.98  | 0.99           | 0.94  |                  |  |               |
| FV4CNF002L                       | 0.94            | 0.98  | 1.00           | 0.97  |                  |  |               |
| CAP**24144L*                     | 0.94            | 1.02  | 1.08           | 1.12  | 58PH*045-08      |  |               |
| CAP**2417AL*                     | 0.94            | 1.02  | 1.09           | 1.11  | 58PH*045-08      |  |               |
| CAP**3014AL*                     | 0.95            | 0.99  | 1.08           | 1.11  | 58PH*045-08      |  |               |
| CAP**3017AL*                     | 0.95            | 0.99  | 1.09           | 1.11  | 58PH*045-08      |  |               |
| CNPV*24144L*                     | 0.93            | 1.01  | 1.08           | 1.12  | 58PH*045-08      |  |               |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.08           | 1.11  | 58PH*045-08      |  |               |
| CNPV*3014AL*                     | 0.95            | 1.03  | 1.08           | 1.11  | 58PH*045-08      |  |               |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.09           | 1.11  | 58PH*045-08      |  |               |
| CAP**24144L*                     | 0.93            | 0.97  | 1.11           | 1.09  | 58CTW045-12      |  |               |
| CAP**2417AL*                     | 0.93            | 0.97  | 1.11           | 1.09  | 58CTW045-12      |  |               |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.10           | 1.09  | 58CTW045-12      |  |               |
| CNPV*3017AL*                     | 0.93            | 1.01  | 1.10           | 1.09  | 58CTW045-12      |  |               |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.08           | 1.07  | 58CTW045-12      |  |               |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.10           | 1.09  | 58CTW045-12      |  |               |
| CNPV*3017AL*                     | 0.93            | 0.97  | 1.11           | 1.09  | 58CTW045-12      |  |               |
| CSPH*3012AL*                     | 0.93            | 0.96  | 1.11           | 1.08  | 58CTW045-12      |  |               |
| CAP**2417AL*                     | 0.93            | 0.96  | 1.11           | 1.08  | 58CTW070-16      |  |               |
| CAP**3017AL*                     | 0.93            | 0.97  | 1.11           | 1.09  | 58CTW070-16      |  |               |
| CNPV*2417AL*                     | 0.93            | 0.97  | 1.11           | 1.08  | 58CTW070-16      |  |               |
| CNPV*3117AL*                     | 0.95            | 0.99  | 1.12           | 1.05  | 58CTW070-16      |  |               |
| CSPH*2412AL*                     | 0.97            | 1.05  | 1.09           | 1.08  | 58CTW070-16      |  |               |
| CNPV*3012AL*                     | 0.93            | 0.97  | 1.11           | 1.07  | 58CTW070-16      |  |               |
| CSPH*2412AL*                     | 0.94            | 0.98  | 1.13           | 1.15  | 58CTW090-16      |  |               |
| CNPV*3012AL*                     | 0.95            | 0.99  | 1.14           | 1.12  | 58P*2A040E14**10 |  |               |
| CAP**2414AL*                     | 0.95            | 1.03  | 1.08           | 1.13  | 59*P2A040E14**10 |  |               |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.08           | 1.13  | 59*P2A040E14**10 |  |               |
| CAP**3014AL*                     | 0.94            | 1.02  | 1.07           | 1.12  | 59*P2A040E14**10 |  |               |
| CAP**3017AL*                     | 0.95            | 1.03  | 1.08           | 1.12  | 59*P2A040E14**10 |  |               |
| CNPV*2414AL*                     | 0.93            | 1.01  | 1.07           | 1.13  | 59*P2A040E14**10 |  |               |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.07           | 1.13  | 59*P2A040E14**10 |  |               |
| CNPV*3014AL*                     | 0.94            | 1.02  | 1.07           | 1.12  | 59*P2A040E14**10 |  |               |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 1.12  | 59*P2A040E14**10 |  |               |
| CNPV*3117AL*                     | 0.94            | 0.98  | 1.11           | 1.11  | 59*P2A040E14**10 |  |               |
| CSPH*2412AL*                     | 0.96            | 1.04  | 1.10           | 1.23  | 59*P2A040E14**10 |  |               |
| CSPH*3012AL*                     | 0.97            | 1.05  | 1.09           | 1.11  | 59*P2A040E14**10 |  |               |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.07           | 1.12  | 59*P2A040E17**12 |  |               |
| CAP**3017AL*                     | 0.95            | 1.03  | 1.08           | 1.13  | 59*P2A040E17**12 |  |               |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 1.13  | 59*P2A040E17**12 |  |               |
| CNPV*3117AL*                     | 0.97            | 1.05  | 1.09           | 1.10  | 59*P2A040E17**12 |  |               |
| CNPV*2417AL*                     | 0.93            | 1.01  | 1.07           | 1.13  | 59*P2A040E17**12 |  |               |
| CNPV*3017AL*                     | 0.95            | 1.03  | 1.08           | 1.12  | 59*P2A040E17**12 |  |               |
| CNPV*3117AL*                     | 0.97            | 1.05  | 1.09           | 1.10  | 59*P2A040E17**12 |  |               |
| CSPH*2412AL*                     | 0.96            | 1.04  | 1.10           | 1.25  | 59*P2A040E17**12 |  |               |
| CAP**2414AL*                     | 0.94            | 0.98  | 1.09           | 1.10  | 59*P2A060E14**12 |  |               |
| CAP**3014AL*                     | 0.95            | 0.99  | 1.10           | 1.11  | 59*P2A060E14**12 |  |               |
| CAP**3017AL*                     | 0.93            | 0.97  | 1.11           | 1.11  | 59*P2A060E14**12 |  |               |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |       |                  |                  |
|----------------------------------|-----------------|-------|----------------|-------|------------------|------------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model    |                  |
|                                  |                 |       |                |       | Cap.             | Model            |
| CAP**3017AL*                     | 0.94            | 0.98  | 1.12           | 1.11  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*2414AL*                     | 0.94            | 1.02  | 1.09           | 1.09  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*2417AL*                     | 0.94            | 1.02  | 1.09           | 1.09  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*3014AL*                     | 0.93            | 1.01  | 1.11           | 1.11  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*3017AL*                     | 0.94            | 0.98  | 1.12           | 1.11  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*3117AL*                     | 0.96            | 1.00  | 1.13           | 1.09  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CSPH*2412AL*                     | 0.95            | 0.99  | 1.09           | 1.10  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CSPH*3012AL*                     | 0.94            | 0.98  | 1.12           | 1.10  | 59°P2A060E14**12 | 59°P2A060E14**12 |
| CNPV*2417AL*                     | 0.96            | 1.04  | 1.11           | 1.13  | 59°P2A060E17**14 | 59°P2A060E17**14 |
| CSPH*2412AL*                     | 0.95            | 0.99  | 1.13           | 1.15  | 59°P2A060E17**14 | 59°P2A060E17**14 |
| CNPV*2417AL*                     | 0.96            | 1.04  | 1.10           | 1.10  | 59°P2A060E17**16 | 59°P2A060E17**16 |
| CSPH*2412AL*                     | 0.94            | 0.98  | 1.12           | 1.12  | 59°P2A060E17**16 | 59°P2A060E17**16 |
| CAP**2414AL*                     | 0.93            | 0.98  | 1.07           | 1.17  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CAP**2417AL*                     | 0.94            | 1.07  | 1.07           | 1.17  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CAP**3014AL*                     | 0.95            | 1.08  | 1.07           | 1.16  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CAP**3017AL*                     | 0.95            | 1.08  | 1.07           | 1.15  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CNPV*2414AL*                     | 0.93            | 1.11  | 1.07           | 1.17  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CNPV*2417AL*                     | 0.93            | 1.11  | 1.07           | 1.17  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CNPV*3014AL*                     | 0.95            | 1.08  | 1.07           | 1.16  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CNPV*3017AL*                     | 0.98            | 1.08  | 1.07           | 1.15  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CNPV*3117AL*                     | 0.95            | 1.11  | 1.08           | 1.13  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CSPH*2412AL*                     | 0.95            | 1.08  | 1.07           | 1.17  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CSPH*3012AL*                     | 0.95            | 1.08  | 1.08           | 1.15  | 59°P5A040E14**10 | 59°P5A040E14**10 |
| CAP**2417AL*                     | 0.93            | 1.01  | 1.07           | 1.14  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CAP**3017AL*                     | 0.93            | 1.01  | 1.07           | 1.13  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*2417AL*                     | 0.94            | 1.12  | 1.08           | 1.15  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*3017AL*                     | 0.93            | 1.06  | 1.07           | 1.13  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*3117AL*                     | 0.96            | 1.04  | 1.09           | 1.12  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*2417AL*                     | 0.92            | 1.04  | 1.07           | 1.14  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*3017AL*                     | 0.93            | 1.01  | 1.07           | 1.13  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*3117AL*                     | 0.96            | 1.04  | 1.09           | 1.12  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CSPH*2412AL*                     | 0.96            | 1.09  | 1.10           | 1.23  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CSPH*3012AL*                     | 0.93            | 1.01  | 1.08           | 1.13  | 59°P5A040E17**12 | 59°P5A040E17**12 |
| CNPV*2417AL*                     | 0.96            | 1.09  | 1.10           | 1.17  | 59°P5A060E17**14 | 59°P5A060E17**14 |
| CSPH*2412AL*                     | 0.97            | 1.05  | 1.10           | 1.16  | 59°P5A060E17**14 | 59°P5A060E17**14 |

See notes on page 48

**DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED**

| 24VNA336 / FEANF005 Comfort + Ducting Mode<br>Condenser Entering Air Temperature ° F (° C) |                                         |            |                |        |                  |         |                |        |                  |           |                |        |                  |           |                |        |                  |           |                |        |                  |       |        |
|--------------------------------------------------------------------------------------------|-----------------------------------------|------------|----------------|--------|------------------|---------|----------------|--------|------------------|-----------|----------------|--------|------------------|-----------|----------------|--------|------------------|-----------|----------------|--------|------------------|-------|--------|
| EDB<br>° F (° C)                                                                           | EVAP. AIR<br>° F (° C)                  | 105 (40.5) |                |        |                  | 95 (35) |                |        |                  | 85 (29.4) |                |        |                  | 75 (23.9) |                |        |                  | 65 (18.3) |                |        |                  |       |        |
|                                                                                            |                                         | ID SCFM    | Capacity MBtuh |        | Total Sys.<br>KW | ID SCFM | Capacity MBtuh |        | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |        | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |        | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |        | Total Sys.<br>KW |       |        |
|                                                                                            |                                         |            | Total          | Sensit |                  |         | Total          | Sensit |                  |           | Total          | Sensit |                  |           | Total          | Sensit |                  |           | Total          | Sensit |                  | Total | Sensit |
| STAGE 5                                                                                    |                                         |            |                |        |                  |         |                |        |                  |           |                |        |                  |           |                |        |                  |           |                |        |                  |       |        |
| 75 (23.9)                                                                                  | 72<br>(22.2)                            | 35.03      | 14.21          | 3.80   | 812              | 36.79   | 14.91          | 3.28   | 848              | 38.97     | 15.79          | 2.81   | 887              | 41.14     | 16.67          | 2.38   | 948              | 43.43     | 17.61          | 1.97   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 32.03      | 18.10          | 3.76   |                  | 33.69   | 18.87          | 3.26   |                  | 35.70     | 19.98          | 2.81   |                  | 37.69     | 21.10          | 2.39   |                  | 39.83     | 22.39          | 2.00   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 29.78      | 21.12          | 3.72   |                  | 31.34   | 21.94          | 3.23   |                  | 33.23     | 23.22          | 2.80   |                  | 35.10     | 24.53          | 2.40   |                  | 37.11     | 26.09          | 2.02   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 26.68      | 25.51          | 3.66   |                  | 28.08   | 26.39          | 3.19   |                  | 29.78     | 27.92          | 2.78   |                  | 31.49     | 29.50          | 2.40   |                  | 33.35     | 31.47          | 2.04   |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 34.90      | 17.98          | 3.79   |                  | 36.65   | 18.72          | 3.28   |                  | 38.82     | 19.81          | 2.81   |                  | 40.96     | 20.92          | 2.37   |                  | 43.26     | 22.19          | 1.97   |                  |       |        |
| 80 (26.7)                                                                                  | 67<br>(19.4)                            | 31.95      | 21.83          | 3.75   | 812              | 33.60   | 22.64          | 3.25   | 848              | 35.61     | 23.95          | 2.81   | 887              | 37.60     | 25.30          | 2.39   | 948              | 39.72     | 26.91          | 2.00   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 29.73      | 24.84          | 3.72   |                  | 31.29   | 25.70          | 3.23   |                  | 33.16     | 27.18          | 2.80   |                  | 35.04     | 28.72          | 2.39   |                  | 37.04     | 30.61          | 2.02   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 27.71      | 27.71          | 3.68   |                  | 28.95   | 28.95          | 3.20   |                  | 30.66     | 30.66          | 2.78   |                  | 32.41     | 32.41          | 2.40   |                  | 34.42     | 34.42          | 2.04   |                  |       |        |
|                                                                                            | STAGE 3                                 |            |                |        |                  |         |                |        |                  |           |                |        |                  |           |                |        |                  |           |                |        |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 21.74      | 8.83           | 1.80   |                  | 22.72   | 9.22           | 1.63   |                  | 24.20     | 9.82           | 1.47   |                  | 25.61     | 10.39          | 1.30   |                  | 27.10     | 11.00          | 1.09   |                  |       |        |
| 75 (23.9)                                                                                  | 67<br>(19.4)                            | 19.76      | 11.28          | 1.80   | 566              | 20.72   | 11.74          | 1.64   | 600              | 22.09     | 12.54          | 1.49   | 626              | 23.39     | 13.27          | 1.33   | 664              | 24.77     | 14.10          | 1.14   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 18.28      | 13.20          | 1.80   |                  | 19.22   | 13.70          | 1.63   |                  | 20.51     | 14.65          | 1.50   |                  | 21.73     | 15.51          | 1.35   |                  | 23.02     | 16.51          | 1.18   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 16.37      | 16.02          | 1.79   |                  | 17.25   | 16.59          | 1.63   |                  | 18.42     | 17.76          | 1.51   |                  | 19.53     | 18.80          | 1.37   |                  | 20.72     | 20.04          | 1.21   |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 21.65      | 11.25          | 1.80   |                  | 22.62   | 11.67          | 1.63   |                  | 24.08     | 12.45          | 1.47   |                  | 25.49     | 13.17          | 1.29   |                  | 26.96     | 13.99          | 1.09   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 19.70      | 13.69          | 1.80   |                  | 20.66   | 14.18          | 1.63   |                  | 22.03     | 15.15          | 1.49   |                  | 23.32     | 16.03          | 1.33   |                  | 24.69     | 17.07          | 1.14   |                  |       |        |
| 80 (26.7)                                                                                  | 63<br>(17.2)                            | 18.26      | 15.60          | 1.80   | 566              | 19.20   | 16.13          | 1.63   | 600              | 20.48     | 17.26          | 1.50   | 626              | 21.70     | 18.27          | 1.35   | 664              | 22.99     | 19.47          | 1.17   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 17.18      | 17.18          | 1.80   |                  | 17.96   | 17.96          | 1.63   |                  | 19.20     | 19.20          | 1.50   |                  | 20.34     | 20.34          | 1.36   |                  | 21.61     | 21.61          | 1.20   |                  |       |        |
|                                                                                            | STAGE 1 – FEANF005 ONLY                 |            |                |        |                  |         |                |        |                  |           |                |        |                  |           |                |        |                  |           |                |        |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 14.50      | 5.90           | 0.99   |                  | 9.48    | 3.84           | 0.49   |                  | 10.07     | 4.08           | 0.49   |                  | 10.66     | 4.32           | 0.45   |                  | 11.47     | 4.65           | 0.35   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 13.17      | 7.58           | 1.00   |                  | 8.59    | 4.79           | 0.50   |                  | 9.13      | 5.04           | 0.52   |                  | 9.66      | 5.30           | 0.49   |                  | 10.39     | 5.71           | 0.41   |                  |       |        |
| 75 (23.9)                                                                                  | 63<br>(17.2)                            | 12.18      | 8.91           | 1.00   | 250              | 7.92    | 5.53           | 0.51   | 250              | 8.42      | 5.80           | 0.53   | 250              | 8.92      | 6.07           | 0.51   | 267              | 9.60      | 6.55           | 0.45   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 10.89      | 10.84          | 1.01   |                  | 7.02    | 6.61           | 0.52   |                  | 7.46      | 6.90           | 0.55   |                  | 7.91      | 7.19           | 0.54   |                  | 8.52      | 7.77           | 0.49   |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 14.44      | 7.57           | 0.99   |                  | 9.44    | 4.79           | 0.49   |                  | 10.03     | 5.04           | 0.49   |                  | 10.62     | 5.30           | 0.45   |                  | 11.43     | 5.71           | 0.35   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 13.13      | 9.25           | 1.00   |                  | 8.56    | 5.73           | 0.50   |                  | 9.10      | 6.01           | 0.52   |                  | 9.64      | 6.28           | 0.49   |                  | 10.36     | 6.78           | 0.41   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 12.16      | 10.56          | 1.00   |                  | 7.91    | 6.47           | 0.51   |                  | 8.41      | 6.76           | 0.53   |                  | 8.91      | 7.05           | 0.51   |                  | 9.58      | 7.61           | 0.45   |                  |       |        |
| 80 (26.7)                                                                                  | 57<br>(13.9)                            | 11.52      | 11.52          | 1.01   | 250              | 7.26    | 7.26           | 0.52   | 250              | 7.64      | 7.64           | 0.54   | 250              | 8.03      | 8.03           | 0.54   | 267              | 8.66      | 8.66           | 0.48   |                  |       |        |
|                                                                                            | STAGE 1 – ALL OTHER INDOOR COMBINATIONS |            |                |        |                  |         |                |        |                  |           |                |        |                  |           |                |        |                  |           |                |        |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 14.50      | 5.90           | 0.99   |                  | 9.35    | 3.79           | 0.49   |                  | 9.88      | 4.01           | 0.50   |                  | 10.62     | 4.30           | 0.45   |                  | 11.47     | 4.65           | 0.35   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 13.17      | 7.58           | 1.00   |                  | 8.46    | 4.68           | 0.50   |                  | 8.94      | 4.90           | 0.52   |                  | 9.62      | 5.27           | 0.49   |                  | 10.39     | 5.71           | 0.41   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 12.18      | 8.91           | 1.00   |                  | 7.80    | 5.37           | 0.51   |                  | 8.25      | 5.59           | 0.53   |                  | 8.88      | 6.02           | 0.51   |                  | 9.60      | 6.55           | 0.45   |                  |       |        |
| 75 (23.9)                                                                                  | 57<br>(13.9)                            | 10.89      | 10.84          | 1.01   | 236              | 6.91    | 6.39           | 0.52   | 232              | 7.30      | 6.60           | 0.55   | 246              | 7.87      | 7.12           | 0.54   | 267              | 8.52      | 7.77           | 0.49   |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 14.44      | 7.57           | 0.99   |                  | 9.31    | 4.68           | 0.49   |                  | 9.84      | 4.90           | 0.50   |                  | 10.58     | 5.27           | 0.45   |                  | 11.43     | 5.71           | 0.35   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 13.13      | 9.25           | 1.00   |                  | 8.44    | 5.57           | 0.50   |                  | 8.92      | 5.79           | 0.52   |                  | 9.60      | 6.23           | 0.49   |                  | 10.36     | 6.78           | 0.41   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 12.16      | 10.56          | 1.00   |                  | 7.79    | 6.26           | 0.51   |                  | 8.23      | 6.48           | 0.53   |                  | 8.87      | 6.98           | 0.51   |                  | 9.58      | 7.61           | 0.45   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 11.52      | 11.52          | 1.01   |                  | 7.08    | 7.08           | 0.52   |                  | 7.39      | 7.39           | 0.55   |                  | 7.97      | 7.97           | 0.54   |                  | 8.66      | 8.66           | 0.48   |                  |       |        |
| 80 (26.7)                                                                                  | 72<br>(22.2)                            | 14.50      | 5.90           | 0.99   | 417              | 13.17   | 7.58           | 1.00   | 236              | 8.46      | 4.68           | 0.50   | 232              | 8.94      | 4.90           | 0.52   | 246              | 9.62      | 5.27           | 0.49   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 12.18      | 8.91           | 1.00   |                  | 7.80    | 5.37           | 0.51   |                  | 8.25      | 5.59           | 0.53   |                  | 8.88      | 6.02           | 0.51   |                  | 9.60      | 6.55           | 0.45   |                  |       |        |
|                                                                                            | 63<br>(17.2)                            | 10.89      | 10.84          | 1.01   |                  | 6.91    | 6.39           | 0.52   |                  | 7.30      | 6.60           | 0.55   |                  | 7.87      | 7.12           | 0.54   |                  | 8.52      | 7.77           | 0.49   |                  |       |        |
|                                                                                            | 72<br>(22.2)                            | 14.44      | 7.57           | 0.99   |                  | 9.31    | 4.68           | 0.49   |                  | 9.84      | 4.90           | 0.50   |                  | 10.58     | 5.27           | 0.45   |                  | 11.43     | 5.71           | 0.35   |                  |       |        |
|                                                                                            | 67<br>(19.4)                            | 13.13      | 9.25           | 1.00   |                  | 8.44    | 5.57           | 0.50   |                  | 8.92      | 5.79           | 0.52   |                  | 9.60      | 6.23           | 0.49   |                  | 10.36     | 6.78           | 0.41   |                  |       |        |
| 80 (26.7)                                                                                  | 63<br>(17.2)                            | 12.16      | 10.56          | 1.00   | 417              | 7.79    | 6.26           | 0.51   | 232              | 8.23      | 6.48           | 0.53   | 246              | 8.87      | 6.98           | 0.51   | 267              | 9.58      | 7.61           | 0.45   |                  |       |        |
|                                                                                            | 57<br>(13.9)                            | 11.52      | 11.52          | 1.01   |                  | 7.08    | 7.08           | 0.52   |                  | 7.39      | 7.39           | 0.55   |                  | 7.97      | 7.97           | 0.54   |                  | 8.66      | 8.66           | 0.48   |                  |       |        |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage

**Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

24VNA936

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *FE4AN(B,F)005L      | 1.00     | 1.00  |                  |
| FE4AN(B,F)003L       | 0.97     | 0.97  |                  |
| FE4AN(B)006L         | 0.99     | 0.99  |                  |
| FE4ANF002L           | 0.96     | 1.01  |                  |
| CAP**3614AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CSPH*3612AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CSPH*4212AL*         | 0.98     | 1.03  | 58CV(A,X)070-12  |
| CAP**3617AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CAP**4817AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.95     | 1.00  | 58CV(A,X)090-16  |
| CNPV*3617AL*         | 0.95     | 1.00  | 58CV(A,X)090-16  |
| CNPV*3717AL*         | 0.97     | 0.97  | 58CV(A,X)090-16  |
| CNPV*4217AL*         | 0.97     | 0.97  | 58CV(A,X)090-16  |
| CNPV*4821AL*         | 0.97     | 1.01  | 58CV(A,X)090-16  |
| CNPV*4821AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CSPH*3612AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CSPH*4212AL*         | 0.98     | 0.98  | 58CV(A,X)090-16  |
| CAP**3617AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*3612AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**3617AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**4817AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3617AL*         | 0.95     | 1.05  | 59*N*A060V17**14 |
| CNPV*3717AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.96     | 1.01  | 59*N*A060V17**14 |
| CNPV*4217AL*         | 0.95     | 1.00  | 59*N*A060V17**14 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59*N*A060V17**14 |
| CSPH*3612AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CSPH*4821AL*         | 0.98     | 1.03  | 59*N*A060V17**14 |
| CAP**3621AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CAP**4221AL*         | 0.97     | 1.01  | 59MN7A060V21**20 |

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| CAP**4821AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.06  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.06  | 59MN7A060V21**20 |
| CNPV*4321AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CNPV*3621AL*         | 0.95     | 1.00  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.95     | 1.00  | 59MN7A060V21**20 |
| CNPV*4221AL*         | 0.96     | 1.01  | 59MN7A060V21**20 |
| CNPV*4324AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CNPV*4821AL*         | 0.97     | 1.02  | 59MN7A060V21**20 |
| CSPH*3612AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CSPH*4212AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |
| CSPH*4812AL*         | 0.98     | 1.03  | 59MN7A060V21**20 |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |               |
|----------------------------------|-----------------|-------|----------------|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model |
| FV4CNCB.FI003L                   | 0.97            | 1.01  | 1.06           |               |
| FV4CNCB.FI002L                   | 0.97            | 1.01  | 0.99           | 1.08          |
| CAP**3614AL*                     | 0.96            | 1.06  | 0.97           | 1.09          |
| CAP**3617AL*                     | 0.97            | 1.07  | 0.97           | 1.08          |
| CAP**3614AL*                     | 0.96            | 1.01  | 0.97           | 1.07          |
| CAP**3617AL*                     | 0.97            | 1.01  | 0.97           | 1.06          |
| CAP**3617AL*                     | 0.97            | 1.02  | 0.98           | 1.05          |
| CAP**3621AL*                     | 0.97            | 1.02  | 0.98           | 1.04          |
| CAP**4221AL*                     | 0.98            | 1.03  | 0.99           | 1.05          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |
| CNPV*3717AL*                     | 1.01            | 1.00  | 1.00           | 1.03          |
| CNPV*4217AL*                     | 0.99            | 1.04  | 0.99           | 1.05          |
| CAP**3621AL*                     | 0.97            | 0.97  | 0.98           | 1.02          |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 1.03          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 0.98           | 1.03          |
| CNPV*4321AL*                     | 1.01            | 1.01  | 1.01           | 1.01          |
| CNPV*3621AL*                     | 0.97            | 1.01  | 0.97           | 1.03          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 0.98           | 1.03          |
| CNPV*3621AL*                     | 0.97            | 0.97  | 0.97           | 1.02          |
| CNPV*4221AL*                     | 0.98            | 0.98  | 0.98           | 1.02          |
| CNPV*4324AL*                     | 1.02            | 0.97  | 1.01           | 0.98          |
| CAP**3617AL*                     | 0.96            | 1.06  | 0.97           | 1.12          |
| CAP**3621AL*                     | 0.96            | 1.06  | 0.97           | 1.11          |
| CAP**4221AL*                     | 0.97            | 1.07  | 0.97           | 1.10          |
| CNPV*3617AL*                     | 0.95            | 1.05  | 0.96           | 1.11          |
| CNPV*3717AL*                     | 1.00            | 1.05  | 0.99           | 1.09          |
| CNPV*4217AL*                     | 0.98            | 1.08  | 0.98           | 1.11          |
| CSPH*3612AL*                     | 0.98            | 1.09  | 0.98           | 1.10          |
| CAP**3614AL*                     | 0.97            | 1.01  | 0.98           | 1.07          |
| CSPH*3612AL*                     | 0.99            | 1.04  | 0.99           | 1.06          |
| CAP**3617AL*                     | 0.97            | 1.02  | 0.98           | 1.05          |
| CAP**3621AL*                     | 0.97            | 1.02  | 0.98           | 1.04          |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 1.04          |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 1.05          |

See notes on page 48

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |                  |
|----------------------------------|-----------------|-------|----------------|------------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Furnace Model    |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 59*P2A060E17**14 |
| CNPV*3717AL*                     | 1.01            | 1.01  | 1.00           | 59*P2A060E17**14 |
| CNPV*4217AL*                     | 0.99            | 0.99  | 0.99           | 59*P2A060E17**14 |
| CSPH*4217AL*                     | 0.99            | 0.99  | 0.99           | 59*P2A060E17**14 |
| CNPV*3617AL*                     | 0.97            | 1.02  | 0.98           | 59*P2A060E17**14 |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.98           | 59*P2A060E17**16 |
| CAP**4221AL*                     | 0.98            | 0.98  | 0.99           | 59*P2A060E17**16 |
| CNPV*3617AL*                     | 0.97            | 1.01  | 0.97           | 59*P2A060E17**16 |
| CNPV*3717AL*                     | 1.01            | 1.01  | 1.00           | 59*P2A060E17**16 |
| CNPV*4217AL*                     | 0.99            | 0.99  | 0.99           | 59*P2A060E17**16 |
| CAP**3617AL*                     | 0.96            | 1.12  | 0.96           | 59*P5A040E17**12 |
| CAP**3621AL*                     | 0.96            | 1.12  | 0.96           | 59*P5A040E17**12 |
| CAP**4221AL*                     | 0.97            | 1.13  | 0.96           | 59*P5A040E17**12 |
| CNPV*3617AL*                     | 0.95            | 1.11  | 0.95           | 59*P5A040E17**12 |
| CNPV*3617AL*                     | 0.95            | 1.11  | 0.95           | 59*P5A040E17**12 |
| CNPV*4217AL*                     | 1.00            | 1.11  | 0.98           | 59*P5A040E17**12 |
| CNPV*4217AL*                     | 0.98            | 1.08  | 0.97           | 59*P5A040E17**12 |
| CAP**3614AL*                     | 0.95            | 1.11  | 0.96           | 59*P5A060E14**12 |
| CAP**3617AL*                     | 0.96            | 1.12  | 0.97           | 59*P5A060E14**12 |
| CAP**3621AL*                     | 0.97            | 1.01  | 0.97           | 59*P5A060E17**14 |
| CAP**4221AL*                     | 0.97            | 1.02  | 0.98           | 59*P5A060E17**14 |
| CNPV*3617AL*                     | 0.96            | 1.01  | 0.97           | 59*P5A060E17**14 |
| CNPV*3717AL*                     | 1.00            | 1.05  | 0.99           | 59*P5A060E17**14 |
| CNPV*4217AL*                     | 0.98            | 1.03  | 0.98           | 59*P5A060E17**14 |

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>° F (° C)                        | EVAP AIR<br>EWB<br>° F (° C) | 24VNA937 / FE4ANB06L Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
|-----------------------------------------|------------------------------|------------------------------------------------------------------------------------------------|----------------|-------|------------------|---------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|
|                                         |                              | 105 (40.5)                                                                                     |                |       |                  | 95 (35) |                |       |                  | 85 (29.4) |                |       |                  | 75 (23.9) |                |       |                  | 65 (18.3) |                |       |                  |
|                                         |                              | ID SCFM                                                                                        | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW |
|                                         |                              |                                                                                                | Total          | Senst |                  |         | Total          | Senst |                  |           | Total          | Senst |                  |           | Total          | Senst |                  |           | Total          | Senst |                  |
| STAGE 5                                 |                              |                                                                                                |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
| 75 (23.9)                               | 72<br>(22.2)                 | 812                                                                                            | 33.61          | 13.66 | 2.96             | 812     | 35.51          | 14.41 | 2.51             | 848       | 37.87          | 15.36 | 2.15             | 888       | 40.27          | 16.34 | 1.81             | 948       | 42.86          | 17.40 | 1.51             |
|                                         |                              |                                                                                                | 30.54          | 17.52 | 2.94             |         | 32.28          | 18.33 | 2.50             |           | 34.42          | 19.52 | 2.15             |           | 36.60          | 20.75 | 1.83             |           | 38.94          | 22.16 | 1.53             |
|                                         |                              |                                                                                                | 28.29          | 20.54 | 2.93             |         | 29.92          | 21.40 | 2.49             |           | 31.90          | 22.77 | 2.15             |           | 33.91          | 24.19 | 1.84             |           | 36.07          | 25.89 | 1.55             |
|                                         |                              |                                                                                                | 25.29          | 24.94 | 2.90             |         | 26.74          | 25.90 | 2.47             |           | 28.50          | 27.52 | 2.15             |           | 30.29          | 29.23 | 1.85             |           | 32.24          | 31.32 | 1.58             |
|                                         |                              |                                                                                                | 33.51          | 17.49 | 2.96             |         | 35.42          | 18.30 | 2.51             |           | 37.77          | 19.49 | 2.15             |           | 40.17          | 20.72 | 1.81             |           | 42.74          | 22.14 | 1.51             |
| 80 (26.7)                               | 72<br>(22.2)                 | 812                                                                                            | 30.47          | 21.31 | 2.94             | 812     | 32.21          | 22.18 | 2.50             | 848       | 34.35          | 23.59 | 2.15             | 888       | 36.52          | 25.07 | 1.83             | 948       | 38.86          | 26.84 | 1.53             |
|                                         |                              |                                                                                                | 28.24          | 24.31 | 2.93             |         | 29.87          | 25.23 | 2.49             |           | 31.85          | 26.83 | 2.15             |           | 33.86          | 28.50 | 1.84             |           | 36.02          | 30.55 | 1.55             |
|                                         |                              |                                                                                                | 26.63          | 26.63 | 2.91             |         | 27.94          | 27.94 | 2.48             |           | 29.75          | 29.75 | 2.15             |           | 31.61          | 31.61 | 1.84             |           | 33.74          | 33.74 | 1.57             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
| 75 (23.9)                               | 72<br>(22.2)                 | 566                                                                                            | 19.09          | 13.58 | 2.08             | 566     | 20.29          | 14.24 | 1.75             | 600       | 21.79          | 15.33 | 1.52             | 625       | 23.23          | 16.32 | 1.31             | 665       | 24.80          | 17.51 | 1.11             |
|                                         |                              |                                                                                                | 17.03          | 16.40 | 2.08             |         | 18.10          | 17.12 | 1.77             |           | 19.44          | 18.43 | 1.55             |           | 20.71          | 19.61 | 1.34             |           | 22.12          | 21.08 | 1.15             |
|                                         |                              |                                                                                                | 22.78          | 11.70 | 2.06             |         | 24.23          | 12.32 | 1.72             |           | 26.03          | 13.26 | 1.47             |           | 27.76          | 14.13 | 1.23             |           | 29.64          | 15.14 | 1.01             |
|                                         |                              |                                                                                                | 20.62          | 14.10 | 2.07             |         | 21.93          | 14.77 | 1.74             |           | 23.55          | 15.90 | 1.50             |           | 25.10          | 16.83 | 1.28             |           | 26.81          | 18.18 | 1.07             |
|                                         |                              |                                                                                                | 19.06          | 15.99 | 2.08             |         | 20.27          | 16.70 | 1.75             |           | 21.76          | 17.98 | 1.52             |           | 23.20          | 19.14 | 1.31             |           | 24.77          | 20.57 | 1.11             |
| 80 (26.7)                               | 72<br>(22.2)                 | 566                                                                                            | 17.76          | 17.76 | 2.08             | 566     | 18.73          | 18.73 | 1.76             | 600       | 20.14          | 20.14 | 1.54             | 625       | 21.44          | 21.44 | 1.33             | 665       | 22.97          | 22.97 | 1.14             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
|                                         |                              |                                                                                                | 19.09          | 13.58 | 2.08             |         | 20.29          | 14.24 | 1.75             |           | 21.79          | 15.33 | 1.52             |           | 23.23          | 16.32 | 1.31             |           | 24.80          | 17.51 | 1.11             |
|                                         |                              |                                                                                                | 17.03          | 16.40 | 2.08             |         | 18.10          | 17.12 | 1.77             |           | 19.44          | 18.43 | 1.55             |           | 20.71          | 19.61 | 1.34             |           | 22.12          | 21.08 | 1.15             |
| 75 (23.9)                               | 72<br>(22.2)                 | 500                                                                                            | 18.14          | 7.36  | 1.70             | 500     | 14.63          | 6.00  | 0.87             | 500       | 15.69          | 6.41  | 0.72             | 500       | 16.75          | 6.83  | 0.57             | 500       | 17.81          | 7.24  | 0.44             |
|                                         |                              |                                                                                                | 16.41          | 9.34  | 1.72             |         | 13.27          | 7.90  | 0.91             |           | 14.22          | 8.36  | 0.76             |           | 15.17          | 8.83  | 0.63             |           | 16.11          | 9.29  | 0.50             |
|                                         |                              |                                                                                                | 15.16          | 10.91 | 1.74             |         | 12.27          | 9.39  | 0.83             |           | 13.14          | 9.90  | 0.80             |           | 14.01          | 10.41 | 0.66             |           | 14.88          | 10.91 | 0.54             |
|                                         |                              |                                                                                                | 13.54          | 13.23 | 1.75             |         | 11.20          | 11.20 | 0.96             |           | 11.91          | 11.91 | 0.83             |           | 12.61          | 12.61 | 0.71             |           | 13.31          | 13.30 | 0.59             |
|                                         |                              |                                                                                                | 18.09          | 9.36  | 1.70             |         | 14.58          | 7.89  | 0.87             |           | 15.64          | 8.36  | 0.72             |           | 16.70          | 8.83  | 0.57             |           | 17.75          | 9.31  | 0.44             |
| 80 (26.7)                               | 72<br>(22.2)                 | 500                                                                                            | 16.37          | 11.32 | 1.72             | 500     | 13.23          | 9.78  | 0.91             | 500       | 14.18          | 10.30 | 0.76             | 500       | 15.12          | 10.82 | 0.63             | 500       | 16.07          | 11.34 | 0.50             |
|                                         |                              |                                                                                                | 15.14          | 12.88 | 1.74             |         | 12.26          | 11.27 | 0.93             |           | 13.13          | 11.83 | 0.80             |           | 14.00          | 12.39 | 0.66             |           | 14.87          | 12.96 | 0.54             |
|                                         |                              |                                                                                                | 14.21          | 14.21 | 1.74             |         | 11.88          | 11.88 | 0.94             |           | 12.62          | 12.62 | 0.81             |           | 13.36          | 13.36 | 0.68             |           | 14.09          | 14.09 | 0.57             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
| 75 (23.9)                               | 72<br>(22.2)                 | 417                                                                                            | 15.72          | 8.68  | 1.72             | 417     | 10.91          | 5.83  | 0.95             | 232       | 11.51          | 6.14  | 0.83             | 246       | 12.45          | 6.65  | 0.70             | 267       | 13.53          | 7.24  | 0.57             |
|                                         |                              |                                                                                                | 14.53          | 9.98  | 1.73             |         | 10.07          | 6.52  | 0.97             |           | 10.63          | 6.83  | 0.85             |           | 11.49          | 7.40  | 0.73             |           | 12.49          | 8.08  | 0.61             |
|                                         |                              |                                                                                                | 12.94          | 11.91 | 1.74             |         | 8.96           | 7.52  | 0.98             |           | 9.45           | 7.84  | 0.87             |           | 10.21          | 8.50  | 0.76             |           | 11.10          | 9.31  | 0.65             |
|                                         |                              |                                                                                                | 17.34          | 8.70  | 1.70             |         | 12.04          | 5.86  | 0.92             |           | 12.71          | 6.17  | 0.79             |           | 13.75          | 6.68  | 0.66             |           | 14.95          | 7.27  | 0.52             |
|                                         |                              |                                                                                                | 15.69          | 10.34 | 1.72             |         | 10.89          | 6.72  | 0.95             |           | 11.49          | 7.05  | 0.83             |           | 12.43          | 7.63  | 0.70             |           | 13.51          | 8.33  | 0.57             |
| 80 (26.7)                               | 72<br>(22.2)                 | 417                                                                                            | 14.50          | 11.63 | 1.73             | 417     | 10.05          | 7.40  | 0.97             | 232       | 10.61          | 7.73  | 0.85             | 246       | 11.47          | 8.38  | 0.73             | 267       | 12.47          | 9.17  | 0.61             |
|                                         |                              |                                                                                                | 13.22          | 13.22 | 1.74             |         | 8.95           | 8.40  | 0.98             |           | 9.44           | 8.73  | 0.87             |           | 10.21          | 9.47  | 0.76             |           | 11.09          | 10.40 | 0.65             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
|                                         |                              |                                                                                                | 19.09          | 13.58 | 2.08             |         | 20.29          | 14.24 | 1.75             |           | 21.79          | 15.33 | 1.52             |           | 23.23          | 16.32 | 1.31             |           | 24.80          | 17.51 | 1.11             |
| STAGE 1 - FE4ANB06L ONLY                |                              |                                                                                                |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
| 75 (23.9)                               | 72<br>(22.2)                 | 500                                                                                            | 18.14          | 7.36  | 1.70             | 500     | 14.63          | 6.00  | 0.87             | 500       | 15.69          | 6.41  | 0.72             | 500       | 16.75          | 6.83  | 0.57             | 500       | 17.81          | 7.24  | 0.44             |
|                                         |                              |                                                                                                | 16.41          | 9.34  | 1.72             |         | 13.27          | 7.90  | 0.91             |           | 14.22          | 8.36  | 0.76             |           | 15.17          | 8.83  | 0.63             |           | 16.11          | 9.29  | 0.50             |
|                                         |                              |                                                                                                | 15.16          | 10.91 | 1.74             |         | 12.27          | 9.39  | 0.83             |           | 13.14          | 9.90  | 0.80             |           | 14.01          | 10.41 | 0.66             |           | 14.88          | 10.91 | 0.54             |
|                                         |                              |                                                                                                | 13.54          | 13.23 | 1.75             |         | 11.20          | 11.20 | 0.96             |           | 11.91          | 11.91 | 0.83             |           | 12.61          | 12.61 | 0.71             |           | 13.31          | 13.30 | 0.59             |
|                                         |                              |                                                                                                | 18.09          | 9.36  | 1.70             |         | 14.58          | 7.89  | 0.87             |           | 15.64          | 8.36  | 0.72             |           | 16.70          | 8.83  | 0.57             |           | 17.75          | 9.31  | 0.44             |
| 80 (26.7)                               | 72<br>(22.2)                 | 500                                                                                            | 16.37          | 11.32 | 1.72             | 500     | 13.23          | 9.78  | 0.91             | 500       | 14.18          | 10.30 | 0.76             | 500       | 15.12          | 10.82 | 0.63             | 500       | 16.07          | 11.34 | 0.50             |
|                                         |                              |                                                                                                | 15.14          | 12.88 | 1.74             |         | 12.26          | 11.27 | 0.93             |           | 13.13          | 11.83 | 0.80             |           | 14.00          | 12.39 | 0.66             |           | 14.87          | 12.96 | 0.54             |
|                                         |                              |                                                                                                | 14.21          | 14.21 | 1.74             |         | 11.88          | 11.88 | 0.94             |           | 12.62          | 12.62 | 0.81             |           | 13.36          | 13.36 | 0.68             |           | 14.09          | 14.09 | 0.57             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
| 75 (23.9)                               | 72<br>(22.2)                 | 417                                                                                            | 15.72          | 8.68  | 1.72             | 417     | 10.91          | 5.83  | 0.95             | 232       | 11.51          | 6.14  | 0.83             | 246       | 12.45          | 6.65  | 0.70             | 267       | 13.53          | 7.24  | 0.57             |
|                                         |                              |                                                                                                | 14.53          | 9.98  | 1.73             |         | 10.07          | 6.52  | 0.97             |           | 10.63          | 6.83  | 0.85             |           | 11.49          | 7.40  | 0.73             |           | 12.49          | 8.08  | 0.61             |
|                                         |                              |                                                                                                | 12.94          | 11.91 | 1.74             |         | 8.96           | 7.52  | 0.98             |           | 9.45           | 7.84  | 0.87             |           | 10.21          | 8.50  | 0.76             |           | 11.10          | 9.31  | 0.65             |
|                                         |                              |                                                                                                | 17.34          | 8.70  | 1.70             |         | 12.04          | 5.86  | 0.92             |           | 12.71          | 6.17  | 0.79             |           | 13.75          | 6.68  | 0.66             |           | 14.95          | 7.27  | 0.52             |
|                                         |                              |                                                                                                | 15.69          | 10.34 | 1.72             |         | 10.89          | 6.72  | 0.95             |           | 11.49          | 7.05  | 0.83             |           | 12.43          | 7.63  | 0.70             |           | 13.51          | 8.33  | 0.57             |
| 80 (26.7)                               | 72<br>(22.2)                 | 417                                                                                            | 14.50          | 11.63 | 1.73             | 417     | 10.05          | 7.40  | 0.97             | 232       | 10.61          | 7.73  | 0.85             | 246       | 11.47          | 8.38  | 0.73             | 267       | 12.47          | 9.17  | 0.61             |
|                                         |                              |                                                                                                | 13.22          | 13.22 | 1.74             |         | 8.95           | 8.40  | 0.98             |           | 9.44           | 8.73  | 0.87             |           | 10.21          | 9.47  | 0.76             |           | 11.09          | 10.40 | 0.65             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
|                                         |                              |                                                                                                | 19.09          | 13.58 | 2.08             |         | 20.29          | 14.24 | 1.75             |           | 21.79          | 15.33 | 1.52             |           | 23.23          | 16.32 | 1.31             |           | 24.80          | 17.51 | 1.11             |
| STAGE 1 - ALL OTHER INDOOR COMBINATIONS |                              |                                                                                                |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
| 75 (23.9)                               | 72<br>(22.2)                 | 500                                                                                            | 18.14          | 7.36  | 1.70             | 500     | 14.63          | 6.00  | 0.87             | 500       | 15.69          | 6.41  | 0.72             | 500       | 16.75          | 6.83  | 0.57             | 500       | 17.81          | 7.24  | 0.44             |
|                                         |                              |                                                                                                | 16.41          | 9.34  | 1.72             |         | 13.27          | 7.90  | 0.91             |           | 14.22          | 8.36  | 0.76             |           | 15.17          | 8.83  | 0.63             |           | 16.11          | 9.29  | 0.50             |
|                                         |                              |                                                                                                | 15.16          | 10.91 | 1.74             |         | 12.27          | 9.39  | 0.83             |           | 13.14          | 9.90  | 0.80             |           | 14.01          | 10.41 | 0.66             |           | 14.88          | 10.91 | 0.54             |
|                                         |                              |                                                                                                | 13.54          | 13.23 | 1.75             |         | 11.20          | 11.20 | 0.96             |           | 11.91          | 11.91 | 0.83             |           | 12.61          | 12.61 | 0.71             |           | 13.31          | 13.30 | 0.59             |
|                                         |                              |                                                                                                | 18.09          | 9.36  | 1.70             |         | 14.58          | 7.89  | 0.87             |           | 15.64          | 8.36  | 0.72             |           | 16.70          | 8.83  | 0.57             |           | 17.75          | 9.31  | 0.44             |
| 80 (26.7)                               | 72<br>(22.2)                 | 500                                                                                            | 16.37          | 11.32 | 1.72             | 500     | 13.23          | 9.78  | 0.91             | 500       | 14.18          | 10.30 | 0.76             | 500       | 15.12          | 10.82 | 0.63             | 500       | 16.07          | 11.34 | 0.50             |
|                                         |                              |                                                                                                | 15.14          | 12.88 | 1.74             |         | 12.26          | 11.27 | 0.93             |           | 13.13          | 11.83 | 0.80             |           | 14.00          | 12.39 | 0.66             |           | 14.87          | 12.96 | 0.54             |
|                                         |                              |                                                                                                | 14.21          | 14.21 | 1.74             |         | 11.88          | 11.88 | 0.94             |           | 12.62          | 12.62 | 0.81             |           | 13.36          | 13.36 | 0.68             |           | 14.09          | 14.09 | 0.57             |
|                                         |                              |                                                                                                | 22.84          | 9.26  | 2.06             |         | 24.29          | 9.84  | 1.72             |           | 26.09          | 10.57 | 1.47             |           | 27.82          | 11.27 | 1.23             |           | 29.72          | 12.04 | 1.01             |
|                                         |                              |                                                                                                | 20.67          | 11.68 | 2.07             |         | 21.98          | 12.30 | 1.74             |           | 23.60          | 13.23 | 1.50             |           | 25.16          | 14.10 | 1.28             |           | 26.87          | 15.10 | 1.07             |
| 75 (23.9)                               | 72<br>(22.2)                 | 417                                                                                            | 15.72          | 8.68  | 1.72             | 417     | 10.91          | 5.83  | 0.95             | 232       | 11.51          | 6.14  | 0.83             | 246       | 12.45          | 6.65  | 0.70             | 267       | 13.53          | 7.24  | 0.57             |
|                                         |                              |                                                                                                | 14.53          | 9.98  | 1.73             |         | 10.07          | 6.52  | 0.97             |           | 10.63          | 6.83  | 0.85             |           | 11.49          | 7.40  | 0.73             |           | 12.49          | 8.08  | 0.61</           |

## 24VNA937

[illegible]

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL      |
|----------------------|----------|-------|--------------------|
| CNPV*6024AL*         | 0.98     | 1.02  | 59*N*1A120V24**22  |
| CNPV*6024AL*         | 0.99     | 0.99  | 58CV(A,X)110-20    |
| CNPV*6024AL*         | 0.99     | 0.99  | 58CV(A,X)135-22    |
| CNPV*6024AL*         | 0.99     | 0.99  | 58CV(A,X)155-22    |
| CSPH*3612AL*         | 0.01     | 0.15  | 59*N*A060V17***14  |
| CSPH*3612AL*         | 0.97     | 1.03  | 59*N*A080V17***14  |
| CSPH*3612AL*         | 0.97     | 1.03  | 59MNTA060V21**20   |
| CSPH*3612AL*         | 0.98     | 1.04  | 59*N*A080V21***20  |
| CSPH*3612AL*         | 0.98     | 1.04  | 59*N*1A100V21***22 |
| CSPH*3612AL*         | 0.98     | 1.04  | 59*N*1A120V24**22  |
| CSPH*3612AL*         | 0.98     | 1.04  | 58CV(A,X)070-12    |
| CSPH*3612AL*         | 0.98     | 1.02  | 58CV(A,X)090-16    |
| CSPH*3612AL*         | 0.98     | 1.02  | 58CV(A,X)110-20    |
| CSPH*3612AL*         | 0.98     | 1.02  | 58CV(A,X)135-22    |
| CSPH*3612AL*         | 0.98     | 1.02  | 58CV(A,X)155-22    |
| CSPH*4212AL*         | 0.01     | 0.15  | 59*N*A060V17***14  |
| CSPH*4212AL*         | 0.98     | 1.04  | 59*N*A080V17***14  |
| CSPH*4212AL*         | 0.98     | 1.04  | 59MNTA060V21**20   |
| CSPH*4212AL*         | 0.98     | 1.02  | 59*N*A080V21***20  |
| CSPH*4212AL*         | 0.98     | 1.02  | 59*N*1A100V21***22 |
| CSPH*4212AL*         | 0.98     | 1.02  | 59*N*1A120V24**22  |
| CSPH*4212AL*         | 0.98     | 1.05  | 58CV(A,X)070-12    |
| CSPH*4212AL*         | 0.98     | 1.02  | 58CV(A,X)090-16    |
| CSPH*4212AL*         | 0.98     | 1.02  | 58CV(A,X)110-20    |
| CSPH*4212AL*         | 0.98     | 1.02  | 58CV(A,X)135-22    |
| CSPH*4212AL*         | 0.99     | 1.03  | 58CV(A,X)155-22    |
| CSPH*4812AL*         | 0.01     | 0.15  | 59*N*A060V17***14  |
| CSPH*4812AL*         | 0.98     | 1.05  | 59*N*A080V17***14  |
| CSPH*4812AL*         | 0.98     | 1.05  | 59MNTA060V21**20   |
| CSPH*4812AL*         | 0.98     | 1.02  | 59*N*A080V21***20  |
| CSPH*4812AL*         | 0.99     | 1.03  | 59*N*1A100V21***22 |
| CSPH*4812AL*         | 0.99     | 1.03  | 59*N*1A120V24**22  |
| CSPH*6012AL*         | 0.99     | 1.03  | 58CV(A,X)070-12    |
| CSPH*6012AL*         | 0.99     | 1.03  | 58CV(A,X)090-16    |
| CSPH*6012AL*         | 0.99     | 1.03  | 58CV(A,X)110-20    |
| CSPH*6012AL*         | 1.00     | 1.00  | 58CV(A,X)135-22    |
| CSPH*6012AL*         | 1.00     | 1.00  | 58CV(A,X)155-22    |

| 2-STAGE (HI-Stage 5, Lo-Stage 2) |                 |       |                |       |               |
|----------------------------------|-----------------|-------|----------------|-------|---------------|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model |
| *FE4ANB006L                      | 1.00            | 1.00  | 1.00           | 1.00  |               |
| FE4AN(B)F003L                    | 0.96            | 0.99  | 0.98           | 1.08  |               |
| FE4AN(B)F005L                    | 0.99            | 0.98  | 0.99           | 1.03  |               |
| FE4ANF002L                       | 0.95            | 1.02  | 0.98           | 1.14  |               |
| FE5ANB004L                       | 1.01            | 1.00  | 1.01           | 1.01  |               |
| FV4CN(B)F003L                    | 0.96            | 0.99  | 0.98           | 1.06  |               |
| FV4CN(B)F005L                    | 0.99            | 0.98  | 0.99           | 1.03  |               |
| FV4CNB006L                       | 1.00            | 0.99  | 1.00           | 1.00  |               |
| FV4CNF002L                       | 0.95            | 1.02  | 0.98           | 1.12  |               |
| CSPH*3612AL                      | 0.97            | 1.03  | 0.97           | 1.07  | 58CTW045-12   |
| CSPH*4212AL *                    | 0.96            | 1.03  | 0.98           | 1.07  | 58CTW045-12   |

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DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>° F (° C)          | EVAP. AIR<br>EWB<br>° F (° C) | 24VNA948 / FE4BNB06 Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
|---------------------------|-------------------------------|-----------------------------------------------------------------------------------------------|----------------|-------|------------------|---------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|-----------|----------------|-------|------------------|
|                           |                               | 105 (40.5)                                                                                    |                |       |                  | 95 (35) |                |       |                  | 85 (29.4) |                |       |                  | 75 (23.9) |                |       |                  | 65 (18.3) |                |       |                  |
|                           |                               | ID SCFM                                                                                       | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh |       | Total Sys.<br>KW |
|                           |                               |                                                                                               | Total          | Sens† |                  |         | Total          | Sens† |                  |           | Total          | Sens† |                  |           | Total          | Sens† |                  |           | Total          | Sens† |                  |
| STAGE 5                   |                               |                                                                                               |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
| 75 (23.9)                 | 72<br>(22.2)                  | 1110                                                                                          | 46.42          | 18.85 | 4.71             | 49.80   | 20.23          | 4.17  | 1184             | 1247      | 1330           | 1226  | 56.46            | 22.96     | 3.19           | 1226  | 58.44            | 23.68     | 2.67           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 42.40          | 24.08 | 4.63             | 45.50   | 25.89          | 4.11  |                  |           |                |       | 48.51            | 27.62     | 3.61           |       | 51.61            | 29.50     | 3.17           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 39.38          | 28.15 | 4.57             | 42.27   | 30.30          | 4.06  |                  |           |                |       | 45.08            | 32.33     | 3.58           |       | 47.99            | 34.60     | 3.15           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 35.31          | 34.09 | 4.47             | 37.94   | 36.72          | 3.98  |                  |           |                |       | 40.49            | 39.19     | 3.53           |       | 43.14            | 41.99     | 3.12           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 46.26          | 23.95 | 4.71             | 49.82   | 25.75          | 4.16  |                  |           |                |       | 52.90            | 27.46     | 3.65           |       | 56.25            | 29.32     | 3.19           |       |                  |
| 80 (26.7)                 | 67<br>(19.4)                  | 1110                                                                                          | 42.29          | 29.13 | 4.63             | 45.38   | 31.35          | 4.10  | 1184             | 1247      | 1330           | 1226  | 51.47            | 35.79     | 3.17           | 1226  | 53.26            | 35.77     | 2.67           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 39.31          | 33.18 | 4.57             | 42.20   | 35.74          | 4.06  |                  |           |                |       | 45.01            | 38.14     | 3.58           |       | 47.91            | 40.87     | 3.15           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 36.80          | 36.80 | 4.51             | 39.58   | 39.58          | 4.01  |                  |           |                |       | 42.24            | 42.24     | 3.55           |       | 45.10            | 45.10     | 3.13           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 29.62          | 12.03 | 2.44             | 31.87   | 12.96          | 2.16  |                  |           |                |       | 34.08            | 13.86     | 1.91           |       | 36.31            | 14.77     | 1.66           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 26.97          | 15.41 | 2.44             | 29.06   | 16.68          | 2.16  |                  |           |                |       | 31.09            | 17.85     | 1.92           |       | 33.14            | 19.06     | 1.68           |       |                  |
| 75 (23.9)                 | 63<br>(17.2)                  | 744                                                                                           | 24.98          | 18.04 | 2.43             | 26.95   | 19.58          | 2.15  | 801              | 842       | 887            | 1001  | 30.75            | 22.40     | 1.70           | 1001  | 33.06            | 24.69     | 1.49           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 22.33          | 21.88 | 2.41             | 24.13   | 23.80          | 2.14  |                  |           |                |       | 25.84            | 25.48     | 1.92           |       | 27.58            | 27.24     | 1.71           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 29.51          | 15.35 | 2.44             | 31.74   | 16.60          | 2.15  |                  |           |                |       | 33.93            | 17.76     | 1.91           |       | 36.15            | 18.96     | 1.66           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 26.90          | 18.70 | 2.44             | 28.98   | 20.29          | 2.15  |                  |           |                |       | 31.00            | 21.72     | 1.92           |       | 33.04            | 23.21     | 1.68           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 34.45          | 25.97 | 4.20             | 26.90   | 23.17          | 2.15  |                  |           |                |       | 28.79            | 24.81     | 1.92           |       | 30.70            | 26.53     | 1.70           |       |                  |
| 80 (26.7)                 | 57<br>(13.9)                  | 744                                                                                           | 30.79          | 29.76 | 4.10             | 33.37   | 32.41          | 3.78  | 801              | 842       | 887            | 1001  | 35.77            | 34.73     | 3.15           | 1001  | 41.59            | 41.26     | 2.86           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 18.27   | 7.44           | 0.93  |                  |           |                |       | 19.44            | 7.91      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.64   | 9.65           | 0.95  |                  |           |                |       | 17.72            | 10.17     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.45   | 11.39          | 0.97  |                  |           |                |       | 16.45            | 11.96     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.90          | 0.98  |                  |           |                |       | 14.76            | 14.58     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
| 75 (23.9)                 | 72<br>(22.2)                  | 662                                                                                           | 25.60          | 10.40 | 1.99             | 18.26   | 7.44           | 0.93  | 500              | 500       | 508            | 534   | 20.67            | 8.39      | 0.71           | 534   | 22.04            | 8.96      | 0.56           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.64   | 9.65           | 0.95  |                  |           |                |       | 17.72            | 10.17     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.45   | 11.39          | 0.97  |                  |           |                |       | 16.45            | 11.96     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.90          | 0.98  |                  |           |                |       | 14.76            | 14.58     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 18.26   | 7.44           | 0.93  |                  |           |                |       | 19.44            | 7.91      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
| 80 (26.7)                 | 67<br>(19.4)                  | 662                                                                                           | 23.27          | 13.31 | 1.99             | 16.64   | 9.65           | 0.95  | 500              | 500       | 508            | 534   | 18.84            | 10.76     | 0.75           | 534   | 20.11            | 11.51     | 0.61           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.45   | 11.39          | 0.97  |                  |           |                |       | 16.45            | 11.96     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.90          | 0.98  |                  |           |                |       | 14.76            | 14.58     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 18.26   | 7.44           | 0.93  |                  |           |                |       | 19.44            | 7.91      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.64   | 9.65           | 0.95  |                  |           |                |       | 17.72            | 10.17     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
| 75 (23.9)                 | 63<br>(17.2)                  | 662                                                                                           | 21.53          | 15.58 | 1.99             | 15.45   | 11.39          | 0.97  | 457              | 482       | 508            | 534   | 15.69            | 15.35     | 0.81           | 534   | 16.68            | 13.53     | 0.65           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
| 80 (26.7)                 | 57<br>(13.9)                  | 662                                                                                           | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  | 457              | 482       | 508            | 534   | 14.63            | 14.27     | 0.90           | 534   | 16.77            | 16.48     | 0.70           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
| STAGE 1 – ALL OTHER COILS |                               |                                                                                               |                |       |                  |         |                |       |                  |           |                |       |                  |           |                |       |                  |           |                |       |                  |
| 75 (23.9)                 | 72<br>(22.2)                  | 662                                                                                           | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  | 457              | 482       | 508            | 534   | 19.30            | 7.84      | 0.83           | 534   | 22.04            | 8.96      | 0.56           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
| 80 (26.7)                 | 67<br>(19.4)                  | 662                                                                                           | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  | 457              | 482       | 508            | 534   | 16.36            | 9.31      | 0.95           | 534   | 20.11            | 11.51     | 0.61           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
| 75 (23.9)                 | 63<br>(17.2)                  | 662                                                                                           | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  | 457              | 482       | 508            | 534   | 15.18            | 10.89     | 0.97           | 534   | 16.68            | 13.53     | 0.65           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
| 80 (26.7)                 | 57<br>(13.9)                  | 662                                                                                           | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  | 457              | 482       | 508            | 534   | 14.63            | 14.27     | 0.90           | 534   | 16.77            | 16.48     | 0.70           |       |                  |
|                           | 72<br>(22.2)                  |                                                                                               | 25.60          | 10.40 | 1.99             | 17.95   | 7.29           | 0.93  |                  |           |                |       | 19.30            | 7.84      | 0.83           |       | 20.67            | 8.39      | 0.71           |       |                  |
|                           | 67<br>(19.4)                  |                                                                                               | 23.27          | 13.31 | 1.99             | 16.36   | 9.31           | 0.95  |                  |           |                |       | 17.59            | 10.02     | 0.86           |       | 18.84            | 10.76     | 0.75           |       |                  |
|                           | 63<br>(17.2)                  |                                                                                               | 21.53          | 15.58 | 1.99             | 15.18   | 10.89          | 0.97  |                  |           |                |       | 16.33            | 11.74     | 0.88           |       | 17.49            | 12.62     | 0.77           |       |                  |
|                           | 57<br>(13.9)                  |                                                                                               | 19.26          | 18.92 | 1.98             | 13.90   | 13.23          | 0.98  |                  |           |                |       | 14.63            | 14.27     | 0.90           |       | 15.69            | 15.35     | 0.81           |       |                  |

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| COOLING INDOOR MODEL |                | CAPACITY | POWER            | FURNACE MODEL    |
|----------------------|----------------|----------|------------------|------------------|
| *FE4ANB006L          | FE4AN(B,F)005L | 1.00     | 1.00             |                  |
|                      | CSP**4817AL*   | 0.98     | 0.98             |                  |
|                      | CSPH*4812AL*   | 0.97     | 1.01             |                  |
|                      | CSPH*6012AL*   | 0.98     | 1.03             | 58CV(A,X)090-16  |
|                      | CSPH*6012AL*   | 0.99     | 0.99             | 58CV(A,X)090-16  |
|                      | CAP**4821AL*   | 0.97     | 1.01             | 58CV(A,X)110-20  |
|                      | CAP**6021AL*   | 0.99     | 0.99             | 58CV(A,X)110-20  |
|                      | CNPV*4821AL*   | 0.97     | 1.06             | 58CV(A,X)110-20  |
|                      | CNPV*4821AL*   | 0.97     | 1.01             | 58CV(A,X)110-20  |
|                      | CSPH*4812AL*   | 0.98     | 1.03             | 58CV(A,X)110-20  |
|                      | CSPH*6012AL*   | 1.00     | 1.00             | 58CV(A,X)110-20  |
|                      | CAP**4824AL*   | 0.97     | 0.97             | 58CV(A,X)135-22  |
|                      | CAP**6024AL*   | 0.99     | 0.99             | 58CV(A,X)135-22  |
|                      | CNPV*6024AL*   | 0.99     | 1.04             | 58CV(A,X)135-22  |
|                      | CNPV*6124AL*   | 1.00     | 1.05             | 58CV(A,X)135-22  |
|                      | CNPV*4824AL*   | 0.98     | 1.03             | 58CV(A,X)135-22  |
|                      | CNPV*6024AL*   | 0.99     | 0.99             | 58CV(A,X)135-22  |
|                      | CNPV*6124AL*   | 1.00     | 1.00             | 58CV(A,X)135-22  |
|                      | CSPH*4812AL*   | 0.98     | 0.98             | 58CV(A,X)135-22  |
|                      | CSPH*6012AL*   | 1.00     | 1.00             | 58CV(A,X)135-22  |
|                      | CAP**4824AL*   | 0.97     | 0.97             | 58CV(A,X)155-22  |
|                      | CAP**6024AL*   | 0.99     | 0.99             | 58CV(A,X)155-22  |
|                      | CNPV*6024AL*   | 0.99     | 0.99             | 58CV(A,X)155-22  |
|                      | CNPV*6124AL*   | 1.00     | 1.05             | 58CV(A,X)155-22  |
|                      | CNPV*4824AL*   | 0.98     | 0.98             | 58CV(A,X)155-22  |
|                      | CNPV*6024AL*   | 0.99     | 0.99             | 58CV(A,X)155-22  |
|                      | CNPV*6124AL*   | 1.00     | 1.00             | 58CV(A,X)155-22  |
|                      | CSPH*4812AL*   | 0.98     | 0.98             | 58CV(A,X)155-22  |
|                      | CSPH*6012AL*   | 1.00     | 1.00             | 58CV(A,X)155-22  |
|                      | CAP**4821AL*   | 0.97     | 1.01             | 59"N*A080V21**20 |
|                      | CAP**6021AL*   | 0.99     | 1.04             | 59"N*A080V21**20 |
|                      | CNPV*4821AL*   | 0.97     | 1.06             | 59"N*A080V21**20 |
|                      | CNPV*4821AL*   | 0.97     | 1.01             | 59"N*A080V21**20 |
|                      | CSPH*4812AL*   | 0.98     | 1.03             | 59"N*A080V21**20 |
|                      | CSPH*6012AL*   | 0.99     | 0.99             | 59"N*A080V21**20 |
|                      | CAP**4824AL*   | 0.97     | 1.01             | 59"N*A100V21**22 |
| CAP**6021AL*         | 0.99           | 0.99     | 59"N*A100V21**22 |                  |
| CNPV*4821AL*         | 0.97           | 1.01     | 59"N*A100V21**22 |                  |
| CNPV*4821AL*         | 0.97           | 1.01     | 59"N*A100V21**22 |                  |
| CSPH*4812AL*         | 0.98           | 1.03     | 59"N*A100V21**22 |                  |
| CSPH*6012AL*         | 0.99           | 0.99     | 59"N*A100V21**22 |                  |
| CAP**4824AL*         | 0.97           | 1.01     | 59"N*A120V24**22 |                  |
| CAP**6024AL*         | 0.99           | 1.04     | 59"N*A120V24**22 |                  |
| CNPV*6024AL*         | 0.99           | 1.04     | 59"N*A120V24**22 |                  |
| CNPV*6124AL*         | 0.99           | 1.04     | 59"N*A120V24**22 |                  |
| CNPV*4824AL*         | 0.97           | 1.01     | 59"N*A120V24**22 |                  |
| CNPV*6024AL*         | 0.99           | 1.04     | 59"N*A120V24**22 |                  |
| CNPV*6124AL*         | 1.00           | 1.05     | 59"N*A120V24**22 |                  |
| CSPH*4812AL*         | 0.98           | 1.03     | 59"N*A120V24**22 |                  |
| CSPH*6012AL*         | 0.99           | 0.99     | 59"N*A120V24**22 |                  |
| CAP**4821AL*         | 0.96           | 1.05     | 59MNTA060V21**20 |                  |
| CAP**6021AL*         | 0.98           | 1.08     | 59MNTA060V21**20 |                  |
| CNPV*4821AL*         | 0.97           | 1.06     | 59MNTA060V21**20 |                  |
| CNPV*4821AL*         | 0.97           | 1.06     | 59MNTA060V21**20 |                  |
| CSPH*4812AL*         | 0.97           | 1.06     | 59MNTA060V21**20 |                  |
| CSPH*6012AL*         | 0.99           | 1.04     | 59MNTA060V21**20 |                  |

## DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| EDB<br>° F (° C) | EVAP AIR  | 24VNA949 + *CNPV*6024AL*+58C(V/A, X)155--22 Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|------------------|-----------|-----------------------------------------------------------------------------------------------------------------------|----------------|-------|---------------|---------|----------------|-------|---------------|-----------|----------------|-------|---------------|-----------|----------------|-------|---------------|-----------|----------------|-------|---------------|
|                  |           | 105 (40.5)                                                                                                            |                |       |               | 95 (35) |                |       |               | 85 (29.4) |                |       |               | 75 (23.9) |                |       |               | 65 (18.3) |                |       |               |
|                  |           | ID SCFM                                                                                                               | Capacity MBtuh |       | Total Sys. KW | ID SCFM | Capacity MBtuh |       | Total Sys. KW | ID SCFM   | Capacity MBtuh |       | Total Sys. KW | ID SCFM   | Capacity MBtuh |       | Total Sys. KW | ID SCFM   | Capacity MBtuh |       | Total Sys. KW |
|                  |           |                                                                                                                       | Total          | Sens† |               |         | Total          | Sens† |               |           | Total          | Sens† |               |           | Total          | Sens† |               |           | Total          | Sens† |               |
| STAGE 5          |           |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 75 (23.9)        | 72 (22.2) | 1110                                                                                                                  | 744            | 1184  | 49.03         | 19.99   | 3.61           | 1196  | 50.82         | 20.67     | 3.20           | 1200  | 52.44         | 21.29     | 2.83           | 1236  | 54.18         | 21.99     | 2.52           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 80 (26.7)        | 72 (22.2) | 1110                                                                                                                  | 744            | 1184  | 48.93         | 25.81   | 3.61           | 1196  | 50.72         | 26.49     | 3.20           | 1200  | 52.34         | 27.07     | 2.83           | 1236  | 54.08         | 27.87     | 2.52           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| STAGE 3          |           |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 75 (23.9)        | 72 (22.2) | 744                                                                                                                   | 801            | 842   | 32.85         | 13.32   | 2.05           | 887   | 34.76         | 14.09     | 1.82           | 887   | 36.68         | 14.86     | 1.61           | 1001  | 38.12         | 15.87     | 1.43           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 80 (26.7)        | 72 (22.2) | 744                                                                                                                   | 801            | 842   | 29.50         | 20.12   | 2.04           | 887   | 31.23         | 21.20     | 1.81           | 887   | 32.98         | 22.32     | 1.60           | 1001  | 35.21         | 24.23     | 1.43           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| STAGE 1          |           |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 75 (23.9)        | 72 (22.2) | 682                                                                                                                   | 744            | 457   | 17.67         | 7.17    | 1.02           | 482   | 19.19         | 7.80      | 0.93           | 508   | 20.76         | 8.45      | 0.80           | 535   | 22.37         | 9.11      | 0.61           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
| 80 (26.7)        | 72 (22.2) | 682                                                                                                                   | 744            | 457   | 17.63         | 8.73    | 1.02           | 482   | 19.16         | 9.45      | 0.93           | 508   | 20.73         | 10.20     | 0.80           | 535   | 22.33         | 10.97     | 0.61           |       |               |
|                  | 67 (19.4) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 63 (17.2) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 57 (13.9) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |
|                  | 53 (11.1) |                                                                                                                       |                |       |               |         |                |       |               |           |                |       |               |           |                |       |               |           |                |       |               |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage  
**Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

24VNA949

| COOLING INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|----------------------|----------|-------|------------------|
| *CNPV*6024AL*        | 1.00     | 1.00  | 58CV(A.X)155-22  |
| FE4AN(B.F)005L       | 0.99     | 0.99  |                  |
| FE4ANB006L           | 1.00     | 1.00  |                  |
| CAP**4821AL*         | 0.97     | 1.03  | 59MN7A060V21**20 |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A080V21**20  |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A100V21**22  |
| CAP**4824AL*         | 0.98     | 1.00  | 59N*A120V24**22  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)110-20  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)135-22  |
| CAP**4824AL*         | 0.98     | 1.00  | 58CV(A.X)155-22  |
| CAP**6021AL*         | 1.00     | 1.00  | 58CV(A.X)090-16  |
| CAP**6021AL*         | 0.99     | 1.06  | 59MN7A060V21**20 |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A080V21**20  |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A100V21**22  |
| CAP**6024AL*         | 1.00     | 1.00  | 59N*A120V24**22  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CAP**6024AL*         | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CNPV*4821AL*         | 0.98     | 1.00  | 58CV(A.X)090-16  |
| CNPV*4821AL*         | 0.98     | 1.04  | 59MN7A060V21**20 |
| CNPV*6024AL*         | 0.99     | 0.99  | 59N*A080V21**20  |
| CNPV*6024AL*         | 1.00     | 1.00  | 59N*A100V21**22  |
| CNPV*6024AL*         | 1.00     | 1.00  | 59N*A120V24**22  |
| CNPV*6024AL*         | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CNPV*6124AL*         | 1.01     | 0.97  | 58CV(A.X)135-22  |
| CNPV*6124AL*         | 1.01     | 0.97  | 58CV(A.X)155-22  |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |                 |       |                |       |                 |  |  |  |  |  |
|----------------------------------|-----------------|-------|----------------|-------|-----------------|--|--|--|--|--|
| Cooling Indoor Model             | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model   |  |  |  |  |  |
| *CNPV*6024AL*                    | 1.00            | 1.00  | 1.00           | 1.00  | 58CV(A.X)155-22 |  |  |  |  |  |
| FE4AN(B.F)005L                   | 0.99            | 0.99  | 1.00           | 1.02  |                 |  |  |  |  |  |
| FE4ANB006L                       | 1.01            | 0.99  | 1.01           | 0.99  |                 |  |  |  |  |  |
| FV4CN(B.F)005L                   | 1.00            | 0.99  | 1.00           | 1.02  |                 |  |  |  |  |  |
| FV4CNB006L                       | 1.01            | 0.99  | 1.01           | 0.99  |                 |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.98           | 1.05  | 58PH*090-16     |  |  |  |  |  |
| CAP**6021AL*                     | 1.00            | 1.03  | 1.00           | 1.04  | 58PH*090-16     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.02  | 0.99           | 1.05  | 58PH*090-16     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.01  | 0.99           | 1.05  | 58PH*090-16     |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 0.99           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 1.03  | 1.01           | 1.05  | 58PH*110-20     |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.98           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CAP**6021AL*                     | 1.00            | 0.98  | 1.00           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 0.98           | 1.03  | 58CTW090-16     |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 0.98  | 1.01           | 1.04  | 58PH*110-20     |  |  |  |  |  |
| CAP**4821AL*                     | 0.97            | 0.99  | 0.98           | 1.04  | 58CTW090-16     |  |  |  |  |  |
| CAP**6021AL*                     | 1.00            | 1.03  | 1.00           | 1.03  | 58CTW090-16     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.02  | 58CTW110-22     |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.99           | 1.02  | 58CTW110-22     |  |  |  |  |  |
| CSPH*4812AL*                     | 0.99            | 1.01  | 0.99           | 1.02  | 58CTW110-22     |  |  |  |  |  |
| CSPH*6012AL*                     | 1.01            | 0.99  | 1.01           | 1.02  | 58CTW110-22     |  |  |  |  |  |
| CAP**4824AL*                     | 0.98            | 1.00  | 0.98           | 1.02  | 58CTW135-22     |  |  |  |  |  |
| CAP**6024AL*                     | 1.00            | 0.98  | 0.99           | 1.01  | 58CTW135-22     |  |  |  |  |  |
| CNPV*6024AL*                     | 1.00            | 1.00  | 1.00           | 1.01  | 58CTW135-22     |  |  |  |  |  |
| CNPV*6124AL*                     | 1.00            | 1.00  | 1.00           | 1.02  | 58CTW135-22     |  |  |  |  |  |
| CNPV*4824AL*                     | 0.98            | 1.00  | 0.98           | 1.01  | 58CTW135-22     |  |  |  |  |  |
| CNPV*6024AL*                     | 1.00            | 0.99  | 1.00           | 1.01  | 58CTW135-22     |  |  |  |  |  |
| CNPV*6124AL*                     | 1.01            | 0.99  | 1.02           | 1.01  | 58CTW135-22     |  |  |  |  |  |
| CSPH*4812AL*                     | 0.99            | 1.01  | 0.99           | 1.02  | 58CTW135-22     |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 0.98  | 1.01           | 1.02  | 58CTW135-22     |  |  |  |  |  |
| CAP**4817AL*                     | 0.98            | 1.00  | 0.98           | 1.05  | 59P2A080E17**16 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.00            | 1.03  | 1.00           | 1.05  | 59P2A080E17**16 |  |  |  |  |  |
| CAP**4821AL*                     | 0.98            | 1.00  | 0.98           | 1.03  | 59P2A080E21**20 |  |  |  |  |  |
| CAP**6021AL*                     | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A080E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A080E21**20 |  |  |  |  |  |
| CSPH*6012AL*                     | 1.01            | 1.00  | 1.00           | 1.01  | 59P2A080E21**20 |  |  |  |  |  |
| CAP**4821AL*                     | 0.98            | 1.00  | 0.98           | 1.03  | 59P2A100E21**20 |  |  |  |  |  |
| CAP**6021AL*                     | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A100E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A100E21**20 |  |  |  |  |  |
| CNPV*6012AL*                     | 1.01            | 1.00  | 1.00           | 1.02  | 59P2A100E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A100E21**20 |  |  |  |  |  |
| CAP**4824AL*                     | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CAP**6024AL*                     | 1.00            | 1.03  | 0.99           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CNPV*4824AL*                     | 0.98            | 1.00  | 0.98           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CNPV*6024AL*                     | 1.00            | 1.03  | 1.00           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CNPV*6124AL*                     | 1.01            | 1.00  | 1.01           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CNPV*6124AL*                     | 1.01            | 1.00  | 1.01           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |  |  |                 |       |                |       |                 |  |  |  |  |  |
|----------------------------------|--|--|-----------------|-------|----------------|-------|-----------------|--|--|--|--|--|
| Cooling Indoor Model             |  |  | High Speed Cap. | Power | Low Speed Cap. | Power | Furnace Model   |  |  |  |  |  |
| CSPH*4812AL*                     |  |  | 0.99            | 1.01  | 0.99           | 1.03  | 59P2A120E24**20 |  |  |  |  |  |
| CSPH*6012AL*                     |  |  | 1.01            | 1.04  | 1.00           | 1.02  | 59P2A120E24**20 |  |  |  |  |  |
| CAP**4821AL*                     |  |  | 0.97            | 0.99  | 0.96           | 1.01  | 59P5A080E21**20 |  |  |  |  |  |
| CAP**4821AL*                     |  |  | 0.97            | 0.99  | 0.99           | 1.10  | 59P5A100E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     |  |  | 0.98            | 1.00  | 1.00           | 1.10  | 59P5A100E21**20 |  |  |  |  |  |
| CAP**4821AL*                     |  |  | 0.97            | 0.99  | 0.98           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CAP**6021AL*                     |  |  | 0.99            | 1.01  | 1.00           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     |  |  | 0.98            | 1.01  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     |  |  | 0.98            | 1.00  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     |  |  | 0.98            | 1.00  | 0.99           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CSPH*6012AL*                     |  |  | 1.00            | 1.03  | 1.01           | 1.07  | 59P6A080E21**20 |  |  |  |  |  |
| CAP**4821AL*                     |  |  | 0.97            | 0.99  | 0.98           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CAP**6021AL*                     |  |  | 0.99            | 1.01  | 1.00           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     |  |  | 0.98            | 1.00  | 0.99           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CNPV*4821AL*                     |  |  | 0.98            | 1.00  | 0.99           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CSPH*4812AL*                     |  |  | 1.00            | 1.03  | 1.01           | 1.06  | 59P6A100E21**20 |  |  |  |  |  |
| CAP**4824AL*                     |  |  | 0.97            | 0.99  | 0.98           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6024AL*                     |  |  | 0.99            | 1.01  | 1.01           | 1.06  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6124AL*                     |  |  | 1.01            | 1.04  | 1.02           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CNPV*6124AL*                     |  |  | 1.01            | 1.04  | 1.02           | 1.05  | 59P6A120E24**22 |  |  |  |  |  |
| CSPH*4812AL*                     |  |  | 0.98            | 1.00  | 1.00           | 1.11  | 59P6A120E24**22 |  |  |  |  |  |
| CSPH*6012AL*                     |  |  | 1.00            | 1.03  | 1.01           | 1.06  | 59P6A120E24**22 |  |  |  |  |  |

See notes on page 48

# DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

| 24VNA360 / FE4BNB061 Comfort + Dehumidify Mode<br>Condenser Entering Air Temperature ° F (° C) |                              |            |                         |                  |         |                         |                  |           |                         |                  |           |                         |                  |           |                         |                  |      |      |       |       |      |  |
|------------------------------------------------------------------------------------------------|------------------------------|------------|-------------------------|------------------|---------|-------------------------|------------------|-----------|-------------------------|------------------|-----------|-------------------------|------------------|-----------|-------------------------|------------------|------|------|-------|-------|------|--|
| EDB<br>° F (° C)                                                                               | EVAP AIR<br>EWB<br>° F (° C) | 105 (40.5) |                         |                  | 95 (35) |                         |                  | 85 (29.4) |                         |                  | 75 (23.9) |                         |                  | 65 (18.3) |                         |                  |      |      |       |       |      |  |
|                                                                                                |                              | ID SCFM    | Capacity MBtuh<br>Total | Total Sys.<br>KW | ID SCFM | Capacity MBtuh<br>Total | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Total Sys.<br>KW | ID SCFM   | Capacity MBtuh<br>Total | Total Sys.<br>KW |      |      |       |       |      |  |
| 75<br>(23.9)                                                                                   | 72<br>(22.2)                 | 1367       | 57.74                   | 23.45            | 6.51    | 1440                    | 61.60            | 25.02     | 5.73                    | 1514             | 65.43     | 26.57                   | 5.06             | 1566      | 69.11                   | 28.06            | 4.43 | 1488 | 71.73 | 29.06 | 3.80 |  |
|                                                                                                | 67<br>(19.4)                 |            | 52.75                   | 29.96            | 6.32    |                         | 56.26            | 31.94     | 5.56                    |                  | 59.74     | 33.92                   | 4.89             |           | 63.08                   | 35.74            | 4.28 |      | 65.39 | 36.48 | 3.66 |  |
|                                                                                                | 63<br>(17.2)                 |            | 49.06                   | 35.05            | 6.19    |                         | 52.31            | 37.35     | 5.43                    |                  | 55.53     | 39.67                   | 4.77             |           | 58.62                   | 41.74            | 4.17 |      | 60.75 | 42.26 | 3.56 |  |
|                                                                                                | 57<br>(13.9)                 |            | 44.14                   | 42.48            | 6.02    |                         | 47.05            | 45.25     | 5.27                    |                  | 49.93     | 48.04                   | 4.62             |           | 52.69                   | 50.49            | 4.02 |      | 54.52 | 50.74 | 3.43 |  |
|                                                                                                | 72<br>(22.2)                 |            | 57.61                   | 29.82            | 6.52    |                         | 61.47            | 31.80     | 5.74                    |                  | 65.28     | 33.78                   | 5.06             |           | 68.97                   | 35.61            | 4.43 |      | 71.59 | 36.37 | 3.80 |  |
| 80<br>(26.7)                                                                                   | 67<br>(19.4)                 | 1367       | 52.65                   | 36.25            | 6.32    | 1440                    | 56.15            | 38.64     | 5.56                    | 1514             | 59.62     | 41.04                   | 4.89             | 1566      | 62.96                   | 43.19            | 4.28 | 1488 | 65.29 | 43.67 | 3.66 |  |
|                                                                                                | 63<br>(17.2)                 |            | 48.99                   | 41.31            | 6.19    |                         | 52.23            | 44.02     | 5.43                    |                  | 55.45     | 46.75                   | 4.77             |           | 58.54                   | 49.15            | 4.17 |      | 60.67 | 49.42 | 3.56 |  |
|                                                                                                | 57<br>(13.9)                 |            | 45.90                   | 45.90            | 6.08    |                         | 48.92            | 48.92     | 5.33                    |                  | 51.93     | 51.93                   | 4.67             |           | 54.72                   | 54.72            | 4.07 |      | 55.91 | 55.91 | 3.46 |  |
|                                                                                                | STAGE 3                      |            |                         |                  |         |                         |                  |           |                         |                  |           |                         |                  |           |                         |                  |      |      |       |       |      |  |
|                                                                                                | 72<br>(22.2)                 |            | 36.98                   | 15.01            | 3.25    |                         | 39.25            | 15.94     | 2.79                    |                  | 41.77     | 16.95                   | 2.44             |           | 44.28                   | 17.97            | 2.13 |      | 47.05 | 19.11 | 1.87 |  |
| 75<br>(23.9)                                                                                   | 67<br>(19.4)                 | 959        | 33.40                   | 19.03            | 3.22    | 1013                    | 35.55            | 20.23     | 2.75                    | 1066             | 37.83     | 21.50                   | 2.39             | 1120      | 40.10                   | 22.76            | 2.09 | 1210 | 42.62 | 24.30 | 1.84 |  |
|                                                                                                | 63<br>(17.2)                 |            | 30.77                   | 22.16            | 3.21    |                         | 32.82            | 23.59     | 2.72                    |                  | 34.94     | 25.04                   | 2.37             |           | 37.04                   | 26.50            | 2.06 |      | 39.38 | 28.36 | 1.81 |  |
|                                                                                                | 57<br>(13.9)                 |            | 27.31                   | 26.75            | 3.18    |                         | 29.19            | 28.48     | 2.69                    |                  | 31.09     | 30.22                   | 2.34             |           | 32.99                   | 31.96            | 2.04 |      | 35.10 | 34.26 | 1.79 |  |
|                                                                                                | 72<br>(22.2)                 |            | 36.89                   | 19.10            | 3.25    |                         | 39.15            | 20.27     | 2.79                    |                  | 41.66     | 21.53                   | 2.44             |           | 44.17                   | 22.80            | 2.13 |      | 46.93 | 24.34 | 1.87 |  |
|                                                                                                | 67<br>(19.4)                 |            | 33.32                   | 23.06            | 3.22    |                         | 35.47            | 24.51     | 2.75                    |                  | 37.74     | 26.01                   | 2.39             |           | 40.02                   | 27.53            | 2.09 |      | 42.53 | 29.47 | 1.84 |  |
| 80<br>(26.7)                                                                                   | 63<br>(17.2)                 | 959        | 30.72                   | 26.18            | 3.21    | 1013                    | 32.77            | 27.85     | 2.72                    | 1066             | 34.89     | 29.54                   | 2.37             | 1120      | 36.99                   | 31.25            | 2.06 | 1210 | 39.33 | 33.50 | 1.81 |  |
|                                                                                                | 57<br>(13.9)                 |            | 28.74                   | 28.74            | 3.19    |                         | 30.65            | 30.65     | 2.70                    |                  | 32.58     | 32.58                   | 2.35             |           | 34.53                   | 34.53            | 2.05 |      | 36.85 | 36.85 | 1.80 |  |
|                                                                                                | STAGE 1                      |            |                         |                  |         |                         |                  |           |                         |                  |           |                         |                  |           |                         |                  |      |      |       |       |      |  |
|                                                                                                | 72<br>(22.2)                 |            | 27.11                   | 11.00            | 2.21    |                         | 19.91            | 8.07      | 1.22                    |                  | 20.99     | 8.50                    | 1.01             |           | 22.49                   | 9.11             | 0.80 |      | 24.02 | 9.73  | 0.59 |  |
|                                                                                                | 67<br>(19.4)                 |            | 24.28                   | 13.80            | 2.21    |                         | 17.69            | 10.04     | 1.21                    |                  | 18.67     | 10.45                   | 1.01             |           | 20.04                   | 11.19            | 0.81 |      | 21.43 | 11.97 | 0.61 |  |
| 75<br>(23.9)                                                                                   | 63<br>(17.2)                 | 748        | 22.21                   | 15.99            | 2.20    | 600                     | 16.05            | 11.57     | 1.21                    | 600              | 16.97     | 11.96                   | 1.01             | 647       | 18.23                   | 12.81            | 0.82 | 700  | 19.53 | 13.71 | 0.62 |  |
|                                                                                                | 57<br>(13.9)                 |            | 19.51                   | 19.20            | 2.20    |                         | 13.98            | 13.85     | 1.20                    |                  | 14.76     | 14.19                   | 1.02             |           | 15.88                   | 15.20            | 0.84 |      | 17.03 | 16.27 | 0.65 |  |
|                                                                                                | 72<br>(22.2)                 |            | 27.04                   | 13.93            | 2.21    |                         | 19.86            | 10.20     | 1.22                    |                  | 20.94     | 10.61                   | 1.01             |           | 22.43                   | 11.35            | 0.80 |      | 23.96 | 12.13 | 0.59 |  |
|                                                                                                | 67<br>(19.4)                 |            | 24.22                   | 16.71            | 2.21    |                         | 17.65            | 12.16     | 1.21                    |                  | 18.63     | 12.54                   | 1.01             |           | 19.99                   | 13.42            | 0.81 |      | 21.39 | 14.35 | 0.61 |  |
|                                                                                                | 63<br>(17.2)                 |            | 22.18                   | 18.88            | 2.20    |                         | 16.04            | 13.68     | 1.21                    |                  | 16.95     | 14.04                   | 1.01             |           | 18.21                   | 15.03            | 0.82 |      | 19.50 | 16.08 | 0.62 |  |
| 80<br>(26.7)                                                                                   | 57<br>(13.9)                 | 748        | 20.65                   | 20.65            | 2.20    | 600                     | 14.90            | 14.90     | 1.20                    | 600              | 15.50     | 15.50                   | 1.02             | 647       | 16.63                   | 16.63            | 0.83 | 700  | 17.82 | 17.82 | 0.64 |  |
|                                                                                                | 72<br>(22.2)                 |            | 27.11                   | 11.00            | 2.21    |                         | 19.91            | 8.07      | 1.22                    |                  | 20.99     | 8.50                    | 1.01             |           | 22.49                   | 9.11             | 0.80 |      | 24.02 | 9.73  | 0.59 |  |
|                                                                                                | 67<br>(19.4)                 |            | 24.22                   | 16.71            | 2.21    |                         | 17.65            | 12.16     | 1.21                    |                  | 18.63     | 12.54                   | 1.01             |           | 19.99                   | 13.42            | 0.81 |      | 21.39 | 14.35 | 0.61 |  |
|                                                                                                | 63<br>(17.2)                 |            | 22.18                   | 18.88            | 2.20    |                         | 16.04            | 13.68     | 1.21                    |                  | 16.95     | 14.04                   | 1.01             |           | 18.21                   | 15.03            | 0.82 |      | 19.50 | 16.08 | 0.62 |  |
|                                                                                                | 57<br>(13.9)                 |            | 20.65                   | 20.65            | 2.20    |                         | 14.90            | 14.90     | 1.20                    |                  | 15.50     | 15.50                   | 1.02             |           | 16.63                   | 16.63            | 0.83 |      | 17.82 | 17.82 | 0.64 |  |

Operation in this area is restricted to maintain reliable system operation and customer comfort. The system will default to the next available stage  
**Stage 5** – Compressor speed limited to stage four at 65 outdoor. **Stage 1** – Compressor speed limited to stage two at 105 outdoor.

See additional notes on page 48

DETAILED COOLING CAPACITIES# - COMFORT + DEHUMIDIFY MODE CONTINUED

24VNA360

| COOLING<br>INDOOR MODEL | CAPACITY | POWER | FURNACE MODEL    |
|-------------------------|----------|-------|------------------|
| *FEANB006L              | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CAP**6021AL*            | 0.99     | 0.99  | 58CV(A.X)110-20  |
| CAP**6024AL*            | 0.99     | 0.99  | 58CV(A.X)110-20  |
| CNPH*6024AL*            | 0.99     | 1.04  | 58CV(A.X)110-20  |
| CNPH*6124AL*            | 0.99     | 1.04  | 58CV(A.X)110-20  |
| CNPV*6024AL*            | 0.98     | 0.98  | 58CV(A.X)110-20  |
| CNPH*6124AL*            | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CSPH*6012AL*            | 1.00     | 1.00  | 58CV(A.X)110-20  |
| CAP**6024AL*            | 0.99     | 0.99  | 58CV(A.X)135-22  |
| CNPH*6024AL*            | 0.99     | 0.99  | 58CV(A.X)135-22  |
| CNPH*6124AL*            | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CNPV*6024AL*            | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CSPH*6012AL*            | 1.00     | 1.00  | 58CV(A.X)135-22  |
| CAP**6024AL*            | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CNPH*6024AL*            | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CNPH*6124AL*            | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CNPV*6024AL*            | 0.99     | 0.99  | 58CV(A.X)155-22  |
| CSPH*6012AL*            | 1.00     | 1.00  | 58CV(A.X)155-22  |
| CAP**6021AL*            | 1.04     | 1.04  | 59N*A080V21**20  |
| CNPH*6021AL*            | 0.99     | 1.04  | 59N*A080V21**20  |
| CNPV*6021AL*            | 0.99     | 1.04  | 59N*A080V21**20  |
| CSPH*6012AL*            | 1.00     | 1.00  | 59N*A080V21**20  |
| CAP**6024AL*            | 0.99     | 1.04  | 59N*A100V21**22  |
| CNPH*6024AL*            | 0.99     | 1.04  | 59N*A100V21**22  |
| CNPH*6124AL*            | 1.00     | 1.00  | 59N*A100V21**22  |
| CNPV*6024AL*            | 0.99     | 1.04  | 59N*A100V21**22  |
| CSPH*6012AL*            | 1.00     | 1.00  | 59N*A100V21**22  |
| CAP**6024AL*            | 0.99     | 1.04  | 59N*A120V24**22  |
| CNPH*6024AL*            | 0.99     | 1.04  | 59N*A120V24**22  |
| CNPH*6124AL*            | 1.00     | 1.00  | 59N*A120V24**22  |
| CNPV*6024AL*            | 0.99     | 1.03  | 59N*A120V24**22  |
| CSPH*6012AL*            | 1.00     | 1.00  | 59N*A120V24**22  |
| CAP**6021AL*            | 0.99     | 0.99  | 59N*A120V24**22  |
| CNPH*6021AL*            | 1.00     | 1.00  | 59N*A120V24**22  |
| CNPH*6124AL*            | 0.98     | 1.03  | 59MN7A060V21**20 |
| CNPV*6024AL*            | 0.98     | 1.03  | 59MN7A060V21**20 |
| CSPH*6012AL*            | 1.00     | 1.00  | 59MN7A060V21**20 |
| CAP**6024AL*            | 0.98     | 1.09  | 59MN7A060V21**20 |
| CNPH*6024AL*            | 0.98     | 1.09  | 59MN7A060V21**20 |
| CNPH*6124AL*            | 0.98     | 1.09  | 59MN7A060V21**20 |
| CNPV*6024AL*            | 0.97     | 1.02  | 59MN7A060V21**20 |
| CSPH*6012AL*            | 0.99     | 1.04  | 59MN7A060V21**20 |
| CNPV*6012AL*            | 0.99     | 1.04  | 59MN7A060V21**20 |

| 2-STAGE (Hi-Stage 5, Lo-Stage 2) |      |      |      |      | Cooling Indoor<br>Model | High<br>Speed<br>Cap. | Power | Low<br>Speed<br>Cap. | Power | Furnace Model    |
|----------------------------------|------|------|------|------|-------------------------|-----------------------|-------|----------------------|-------|------------------|
| *FV4CNB006L                      | 1.00 | 1.00 | 1.00 | 1.00 |                         |                       |       |                      |       |                  |
| CAP**6021AL*                     | 1.01 | 1.08 | 1.01 | 1.07 | CNPH*6012AL*            | 1.02                  | 1.07  | 1.00                 | 1.04  | 58PH*110-20      |
| CNPH*6012AL*                     | 1.02 | 1.07 | 1.00 | 1.04 | CNPH*6024AL*            | 1.01                  | 1.06  | 1.01                 | 1.12  | 58PH*135-20      |
| CAP**6024AL*                     | 1.01 | 1.06 | 1.00 | 1.11 | CNPH*6124AL*            | 1.01                  | 1.06  | 1.01                 | 1.06  | 58PH*135-20      |
| CNPH*6024AL*                     | 1.01 | 1.08 | 1.01 | 1.06 | CNPV*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.06  | 58PH*135-20      |
| CNPH*6124AL*                     | 1.01 | 1.06 | 1.01 | 1.12 | CNPV*6124AL*            | 1.02                  | 1.07  | 1.00                 | 1.03  | 58PH*135-20      |
| CNPV*6024AL*                     | 1.00 | 1.05 | 1.01 | 1.06 | CSPH*6012AL*            | 1.02                  | 1.07  | 1.01                 | 1.05  | 58PH*135-20      |
| CNPH*6024AL*                     | 1.02 | 1.07 | 1.00 | 1.03 | CAP**6021AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | 58CTW110-22      |
| CSPH*6012AL*                     | 1.02 | 1.07 | 1.00 | 1.04 | CNPH*6012AL*            | 1.01                  | 1.06  | 1.01                 | 1.06  | 58CTW110-22      |
| CAP**6024AL*                     | 1.01 | 1.08 | 1.01 | 1.06 | CAP**6024AL*            | 1.01                  | 1.06  | 1.01                 | 1.06  | 58CTW135-22      |
| CNPH*6024AL*                     | 1.01 | 1.06 | 1.01 | 1.06 | CNPH*6124AL*            | 1.01                  | 1.06  | 1.01                 | 1.06  | 58CTW135-22      |
| CNPH*6124AL*                     | 1.00 | 1.05 | 1.01 | 1.06 | CNPV*6024AL*            | 1.00                  | 1.05  | 1.01                 | 1.06  | 58CTW135-22      |
| CNPV*6124AL*                     | 1.02 | 1.07 | 1.01 | 1.04 | CNPV*6124AL*            | 1.02                  | 1.07  | 1.01                 | 1.04  | 58CTW135-22      |
| CSPH*6012AL*                     | 1.01 | 1.06 | 1.01 | 1.07 | CAP**6021AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | 59*P2A080E21**20 |
| CNPH*6012AL*                     | 1.02 | 1.07 | 1.00 | 1.05 | CSPH*6012AL*            | 1.02                  | 1.07  | 1.00                 | 1.05  | 59*P2A080E21**20 |
| CAP**6024AL*                     | 1.01 | 1.06 | 1.01 | 1.07 | CAP**6024AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | 59*P2A100E21**20 |
| CNPH*6024AL*                     | 1.01 | 1.06 | 1.00 | 1.05 | CSPH*6012AL*            | 1.01                  | 1.06  | 1.01                 | 1.05  | 59*P2A100E21**20 |
| CNPH*6124AL*                     | 1.01 | 1.08 | 1.01 | 1.07 | CAP**6024AL*            | 1.01                  | 1.08  | 1.01                 | 1.07  | 59*P2A120E24**20 |
| CNPV*6012AL*                     | 1.00 | 1.06 | 1.01 | 1.04 | CNPH*6024AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | 59*P2A120E24**20 |
| CNPH*6024AL*                     | 1.02 | 1.07 | 1.00 | 1.04 | CNPH*6124AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | 59*P2A120E24**20 |
| CNPV*6124AL*                     | 1.00 | 1.05 | 1.01 | 1.07 | CNPV*6024AL*            | 1.00                  | 1.05  | 1.01                 | 1.07  | 59*P2A120E24**20 |
| CSPH*6012AL*                     | 1.02 | 1.07 | 1.00 | 1.05 | CSPH*6012AL*            | 1.02                  | 1.07  | 1.00                 | 1.05  | 59*P2A120E24**20 |
| CAP**6021AL*                     | 0.99 | 1.04 | 1.01 | 1.11 | CAP**6021AL*            | 0.99                  | 1.04  | 1.01                 | 1.11  | 59*P5A080E21**20 |
| CNPH*6012AL*                     | 1.00 | 1.05 | 1.01 | 1.10 | CSPH*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.10  | 59*P5A080E21**20 |
| CAP**6024AL*                     | 1.00 | 1.05 | 1.01 | 1.11 | CAP**6024AL*            | 1.00                  | 1.05  | 1.01                 | 1.11  | 59*P5A120E24**22 |
| CNPH*6024AL*                     | 1.00 | 1.05 | 1.01 | 1.11 | CNPH*6024AL*            | 1.00                  | 1.05  | 1.01                 | 1.11  | 59*P5A120E24**22 |
| CNPH*6124AL*                     | 1.00 | 1.05 | 1.01 | 1.10 | CNPH*6124AL*            | 1.00                  | 1.05  | 1.01                 | 1.10  | 59*P5A120E24**22 |
| CNPV*6012AL*                     | 0.99 | 1.04 | 1.01 | 1.10 | CNPV*6024AL*            | 0.99                  | 1.04  | 1.01                 | 1.10  | 59*P5A120E24**22 |
| CNPH*6024AL*                     | 1.00 | 1.05 | 1.01 | 1.09 | CNPH*6124AL*            | 1.00                  | 1.05  | 1.01                 | 1.09  | 59*P5A120E24**22 |
| CNPH*6124AL*                     | 1.00 | 1.05 | 1.01 | 1.09 | CSPH*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.09  | 59*P5A120E24**22 |
| CNPV*6012AL*                     | 1.00 | 1.05 | 1.01 | 1.10 | CSPH*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.10  | 59*P5A120E24**22 |
| CNPH*6024AL*                     | 0.99 | 1.04 | 1.01 | 1.11 | CAP**6024AL*            | 0.99                  | 1.04  | 1.01                 | 1.11  | 59*P6A100E21**20 |
| CNPH*6124AL*                     | 1.00 | 1.05 | 1.01 | 1.10 | CNPH*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.10  | 59*P6A100E21**20 |
| CNPV*6012AL*                     | 0.98 | 1.03 | 1.01 | 1.10 | CNPH*6012AL*            | 0.98                  | 1.03  | 1.01                 | 1.10  | 59*P6A120E24**22 |
| CSPH*6012AL*                     | 1.00 | 1.05 | 1.01 | 1.09 | CNPV*6124AL*            | 1.00                  | 1.05  | 1.01                 | 1.09  | 59*P6A120E24**22 |
| CNPH*6012AL*                     | 1.00 | 1.05 | 1.01 | 1.08 | CSPH*6012AL*            | 1.00                  | 1.05  | 1.01                 | 1.08  | 59*P6A120E24**22 |
| CAP**6024AL*                     | 0.99 | 1.04 | 1.01 | 1.09 | CAP**6024AL*            | 0.99                  | 1.04  | 1.01                 | 1.09  | OVLAAB060154     |
| CNPH*6024AL*                     | 1.01 | 1.06 | 1.01 | 1.07 | CNPV*6124AL*            | 1.01                  | 1.06  | 1.01                 | 1.07  | OVLAAB060154     |
| CNPV*6124AL*                     | 1.01 | 1.06 | 1.01 | 1.11 | CNPV*6124AL*            | 1.01                  | 1.06  | 1.01                 | 1.11  | OVMAAB060154     |
| CSPH*6012AL*                     | 1.01 | 1.06 | 1.00 | 1.11 | CSPH*6012AL*            | 1.01                  | 1.06  | 1.00                 | 1.11  | OVMAAB060154     |

NOTES:

- \* Tested combination.
  - † Total and sensible capacities are net capacities. Blower motor heat has been subtracted.
  - ‡ Sensible capacities are shown for both 80°F (27°C) and 75°F (23.4°C) entering air at the indoor coil.
  - § For sensible capacities at other than these, deduct 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below reference temperature, or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above reference temperature.
  - # Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240-2008. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.
  - \*\* System kw is total of indoor and outdoor unit kilowatts.
- NOTE:** When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
- EWB** — Entering Wet Bulb

## GUIDE SPECIFICATIONS

### GENERAL

#### System Description

Outdoor-mounted, air-cooled, split-system air conditioning unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, forward-swept blade propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

#### Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 240.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have C-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils are pressure tested and the outdoor units are leak tested.
- Unit constructed in ISO9001 approved facility.

#### Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

#### Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

## PRODUCTS

#### Equipment

- Factory-assembled, single-piece, air-cooled air conditioning unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A) refrigerant, and special features required prior to field start-up.

#### Unit Cabinet

- Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

#### Fans

- Condenser fan will be direct-drive propeller type, forward swept blade, discharging air upward.

## AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER 24VNA9

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated.
- Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

#### Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.
- Compressor will be covered with a sound absorbing blanket.

#### Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

#### Refrigeration Components

- Refrigeration circuit components will include liquid-line front-seating shutoff valve with sweat connections, vapor-line front-seating shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, POE compressor oil, accumulator, charge compensator, electronic expansion valve, and reversing valve.
- Unit will be equipped with high-pressure switch, suction pressure transducer, and filter drier for Puron® refrigerant.

#### Operating Characteristics

- The capacity of the unit will meet or exceed \_\_\_\_\_ Btuh at a suction temperature of \_\_\_\_\_ °F (°C). The power consumption at full load will not exceed \_\_\_\_\_ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of \_\_\_\_\_ Btuh or greater at conditions of \_\_\_\_\_ CFM entering air temperature at the evaporator at \_\_\_\_\_ °F (°C) wet bulb and \_\_\_\_\_ °F (°C) dry bulb, and air entering the unit at \_\_\_\_\_ °F (°C).
- The system will have a SEER of \_\_\_\_\_ Btuh/watt or greater at DOE conditions.

#### Electrical Requirements

- Nominal unit electrical characteristics will be \_\_\_\_\_ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of \_\_\_\_\_ v to \_\_\_\_\_ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.
- Compliant with IEC 61000-4-5 Transient Surge Requirement.

#### Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.
- Infinity control with appropriate software version is required for full featured operation.

## SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is not qualified for low ambient cooling operation.  
Minimum cooling outdoor operating temperatures:
  - Communicating systems: 40°F (4.44°C)
  - Non-communicating systems: 55°F (12.8°C)
3. For reliable operation, unit should be level in all horizontal planes.
4. This unit is qualified for up to 100 ft (30.5 m) equivalent length of line set without additional accessories.
5. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
6. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
7. Do not apply capillary tube indoor coils to these units.
8. Puron refrigerant TXV required on indoor coil.