

**45MULA**  
**Evaporator Coil, Cased, Multipoise**  
**for Puron Advance™ (R-454B) Refrigerant**  
**Sizes 24K, 36K, and 60K**



## Product Data

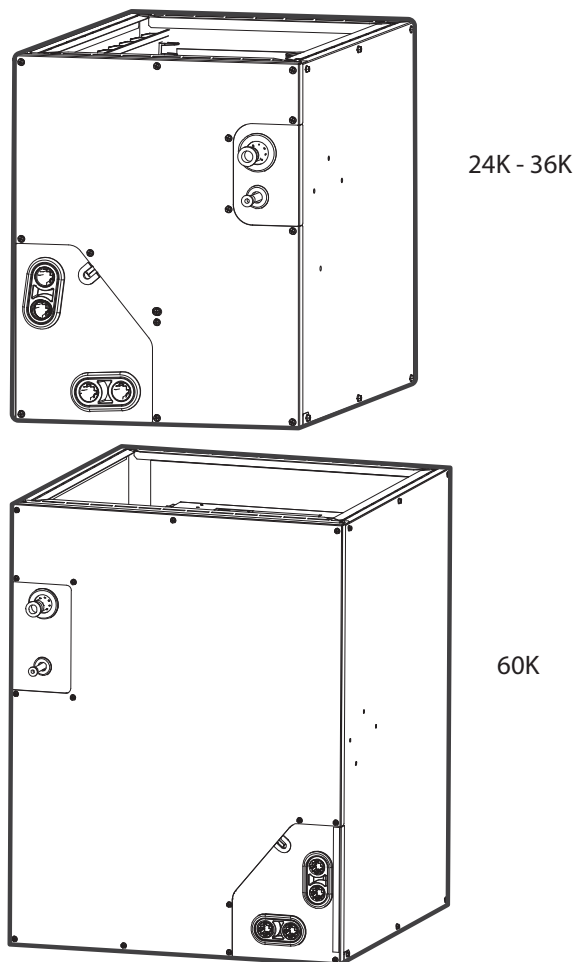


**Fig. 1 — Sizes 24K, 36K, and 60K**

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

**NOTE:** It is permissible for the 24K to be used as an 18K, 36K as a 30K, and the 60K as a 48K.

The 45MULA evaporator coil incorporates proven standards for reliable system operation and performance throughout the life of this Heat Pump system. These quality evaporator coils, manufactured and installed as part of a total comfort system, provide AHRI-rated performance ratings and are additionally listed with UL and c-UL.

This coil is available for use with Puron Advance Refrigerant only. It is a cased coil that is housed in a durable, pre-painted metallic cabinet. The fully insulated cabinet provides for quiet efficient operation of the evaporator coil. This multipoise coil offers the most in installation application flexibility; one coil for a variety of applications with fewer SKUs to stock.

### DESIGN FEATURES

#### Performance

Designed with performance in mind, this new coil offers low pressure drops to enhance system performance and airflow characteristics.

#### Thermostatic Expansion Valves (TXV)

All coils have refrigerant-specific, factory-installed TXVs.

#### Durable Condensate Pans (2)

The corrosion-resistant multi-positional drainpan. It is engineered with proper slope to help ensure water drainage, improved moisture removal, and home comfort.

#### Dissipation System

System is factory installed with R-454B leak sensor.

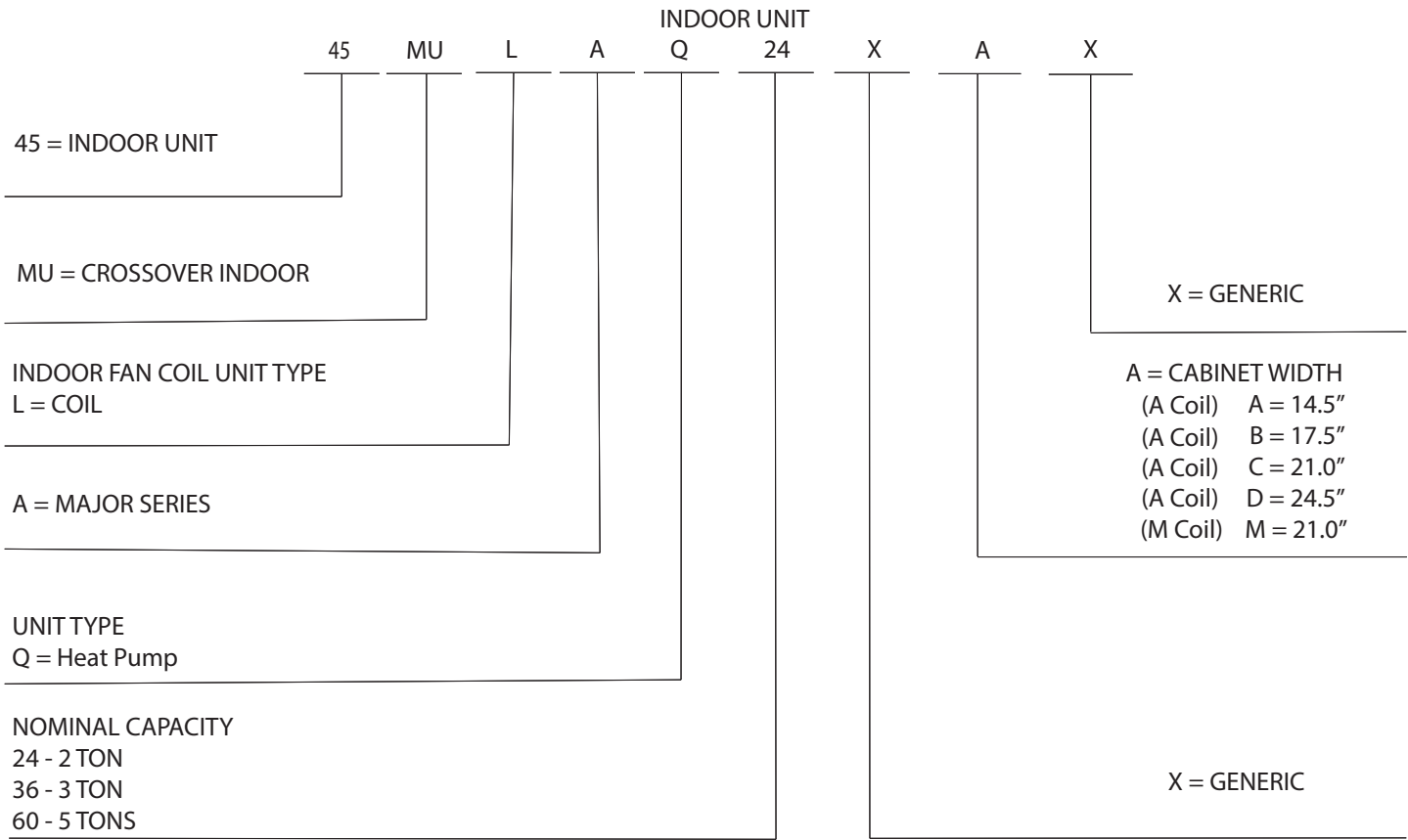
#### Serviceability

After the door is removed, the coil is removable from the front of the unit without use of any tools.

## TABLE OF CONTENTS

|                                                                      |    |
|----------------------------------------------------------------------|----|
| DESIGN FEATURES . . . . .                                            | 1  |
| MODEL NUMBER NOMENCLATURE . . . . .                                  | 3  |
| DIMENSIONS . . . . .                                                 | 4  |
| Table 1 – Dimensions By Model . . . . .                              | 4  |
| PERFORMANCE DATA - 37MUHA+ 45MULA . . . . .                          | 6  |
| Table 2 – 37MUHA+ 45MULACooling Performance (18K - 24A) . . . . .    | 6  |
| Table 3 – 37MUHA+ 45MULAHeating Performance (18K - 24A) . . . . .    | 8  |
| Table 4 – 37MUHA+ 45MULACooling Performance (18K - 24B) . . . . .    | 9  |
| Table 5 – 37MUHA+ 45MULAHeating Performance (18K - 24B) . . . . .    | 11 |
| Table 6 – 37MUHA+ 45MULACooling Performance (24K - 24A) . . . . .    | 12 |
| Table 7 – 37MUHA+ 45MULAHeating Performance (24K - 24A) . . . . .    | 14 |
| Table 8 – 37MUHA+ 45MULACooling Performance (24K - 24B) . . . . .    | 15 |
| Table 9 – 37MUHA+ 45MULAHeating Performance (24K - 24B) . . . . .    | 17 |
| Table 10 – 37MUHA+ 45MULACooling Performance (30K - 36A) . . . . .   | 18 |
| Table 11 – 37MUHA+ 45MULAHeating Performance (30K - 36A) . . . . .   | 20 |
| Table 12 – 37MUHA+ 45MULACooling Performance (30K - 36B) . . . . .   | 21 |
| Table 13 – 37MUHA+ 45MULAHeating Performance (30K - 36B) . . . . .   | 23 |
| Table 14 – 37MUHA+ 45MULACooling Performance (30K - 36C) . . . . .   | 24 |
| Table 15 – 37MUHA+ 45MULAHeating Performance (30K - 36C) . . . . .   | 26 |
| Table 16 – 37MUHA + Cooling Performance (36K - 36A) . . . . .        | 27 |
| Table 17 – 37MUHA+ 45MULAHeating Performance (36K - 36A) . . . . .   | 29 |
| Table 18 – 37MUHA+ 45MULACooling Performance (36K - 36B) . . . . .   | 30 |
| Table 19 – 37MUHA+ 45MULAHeating Performance (36K - 36B) . . . . .   | 32 |
| Table 20 – 37MUHA+ 45MULACooling Performance (36K - 36C) . . . . .   | 33 |
| Table 21 – 37MUHA+ 45MULAHeating Performance (36K - 36C) . . . . .   | 35 |
| Table 22 – 37MUHA+ 45MULACooling Performance (48K - 60C) . . . . .   | 36 |
| Table 23 – 37MUHA+ 45MULAHeating Performance (48K - 60C) . . . . .   | 38 |
| Table 24 – 37MUHA+ 45MULACooling Performance (48K - 60D) . . . . .   | 39 |
| Table 25 – 37MUHA+ 45MULAHeating Performance (48K - 60D) . . . . .   | 41 |
| Table 26 – 37MUHA+ 45MULACooling Performance (54K - 60C) . . . . .   | 42 |
| Table 27 – 37MUHA+ 45MULAHeating Performance (54K - 60C) . . . . .   | 44 |
| Table 28 – 37MUHA+ 45MULACooling Performance (54K - 60D) . . . . .   | 45 |
| Table 29 – 37MUHA+ 45MULAHeating Performance (54K - 60D) . . . . .   | 47 |
| PERFORMANCE DATA - 37MURA + 45MULA . . . . .                         | 48 |
| Table 30 – 37MURA + 45MULA Cooling Performance (18K - 24A) . . . . . | 48 |
| Table 31 – 37MURA + 45MULA Heating Performance (18K - 24A) . . . . . | 50 |
| Table 32 – 37MURA + 45MULA Cooling Performance (18K - 24B) . . . . . | 51 |
| Table 33 – 37MURA + 45MULA Heating Performance (18K - 24B) . . . . . | 53 |
| Table 34 – 37MURA + 45MULA Cooling Performance (24K - 24A) . . . . . | 54 |
| Table 35 – 37MURA + 45MULA Heating Performance (24K - 24A) . . . . . | 56 |
| Table 36 – 37MURA + 45MULA Cooling Performance (24K - 24B) . . . . . | 57 |
| Table 37 – 37MURA + 45MULA Heating Performance (24K - 24B) . . . . . | 59 |
| Table 38 – 37MURA + 45MULA Cooling Performance (30K - 36A) . . . . . | 60 |
| Table 39 – 37MURA + 45MULA Heating Performance (30K - 36A) . . . . . | 62 |
| Table 40 – 37MURA + 45MULA Cooling Performance (30K - 36B) . . . . . | 63 |
| Table 41 – 37MURA + 45MULA Heating Performance (30K - 36B) . . . . . | 65 |
| Table 42 – 37MURA + 45MULA Cooling Performance (30K - 36C) . . . . . | 66 |
| Table 43 – 37MURA + 45MULA Heating Performance (30K - 36C) . . . . . | 68 |
| Table 44 – 37MURA + 45MULA Cooling Performance (36K - 36A) . . . . . | 69 |
| Table 45 – 37MURA + 45MULA Heating Performance (36K - 36A) . . . . . | 71 |
| Table 46 – 37MURA + 45MULA Cooling Performance (36K - 36B) . . . . . | 72 |
| Table 47 – 37MURA + 45MULA Heating Performance (36K - 36B) . . . . . | 74 |
| Table 48 – 37MURA + 45MULA Cooling Performance (36K - 36C) . . . . . | 75 |
| Table 49 – 37MURA + 45MULA Heating Performance (36K - 36C) . . . . . | 77 |
| Table 50 – 37MURA + 45MULA Cooling Performance (48K - 60C) . . . . . | 78 |
| Table 51 – 37MURA + 45MULA Heating Performance (48K -60C) . . . . .  | 80 |
| Table 52 – 37MURA + 45MULA Cooling Performance (48K - 60D) . . . . . | 81 |
| Table 53 – 37MURA + 45MULA Heating Performance (48K -60D) . . . . .  | 83 |
| Table 54 – 37MURA + 45MULA Cooling Performance (54K - 60C) . . . . . | 84 |
| Table 55 – 37MURA + 45MULA Heating Performance (54K -60C) . . . . .  | 86 |
| Table 56 – 37MURA + 45MULA Cooling Performance (54K - 60D) . . . . . | 87 |
| Table 57 – 37MURA + 45MULA Heating Performance (54K -60D) . . . . .  | 89 |
| COIL STATIC PRESSURE DROP . . . . .                                  | 90 |

MODEL NUMBER NOMENCLATURE



NOTE: It is permissible for the 24K to be used as an 18K, 36K as a 30K, and the 60K as a 48K.



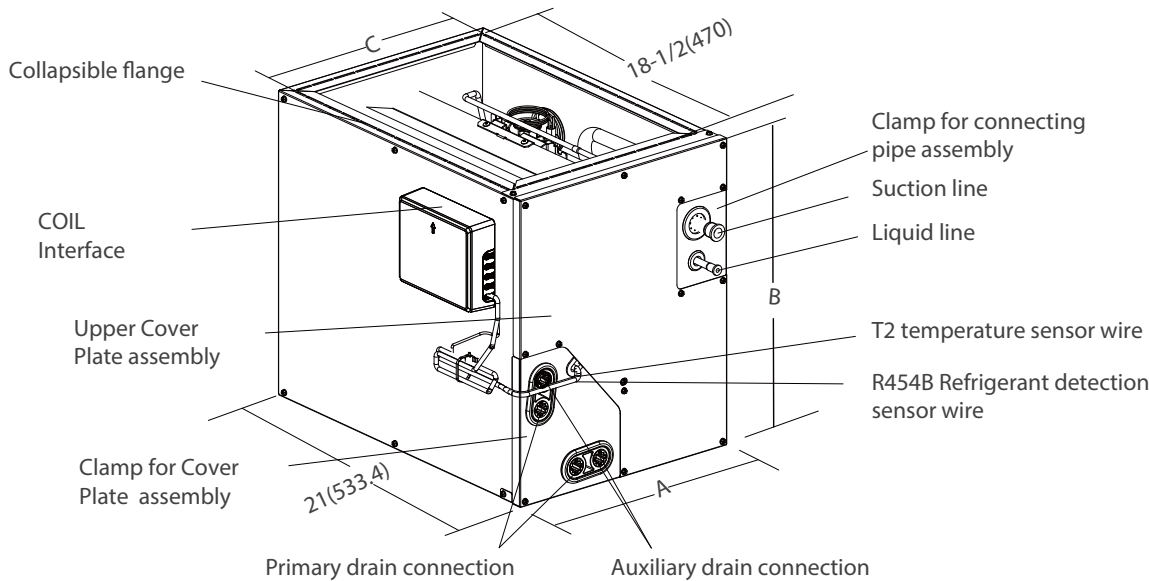
Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



DIMENSIONS

General Layout

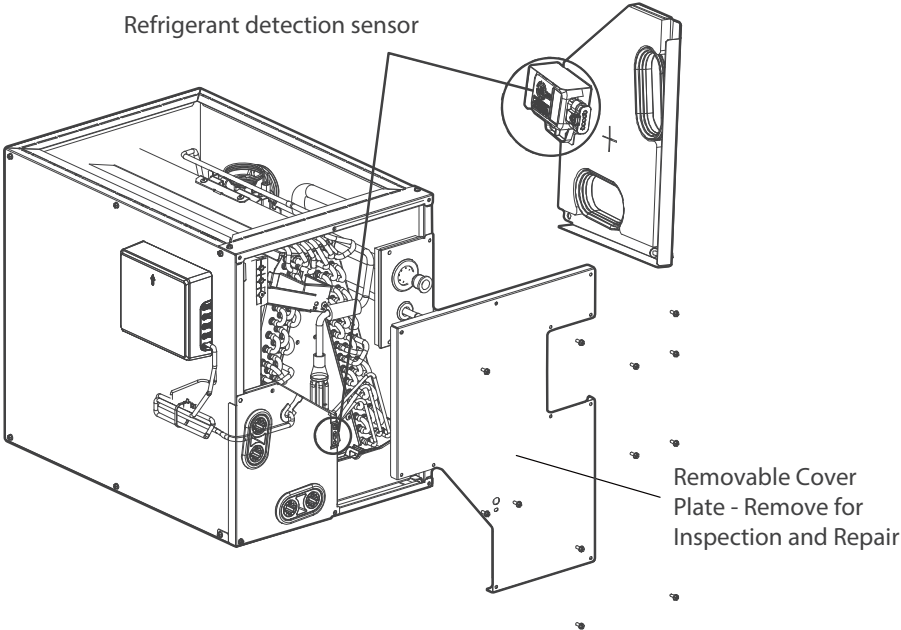
Unit: in(mm)



Unit Dimensions

Table 1 – Dimensions By Model

| Model      | 45MULAQ24XAX |     | 45MULAQ36XAX |     | 45MULAQ24XBX |     | 45MULAQ36XBX |     |
|------------|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| Dimensions | Inch         | mm  | Inch         | mm  | Inch         | mm  | Inch         | mm  |
| A          | 14-1/2       | 368 | 14-1/2       | 368 | 17-1/2       | 445 | 17-1/2       | 445 |
| B          | 18           | 457 | 23-5/16      | 592 | 18           | 457 | 23-1/2       | 599 |
| C          | 13-1/4       | 336 | 13-1/4       | 336 | 16-3/16      | 411 | 16-3/16      | 411 |
| Model      | 45MULAQ36XCX |     | 45MULAQ60XDX |     | 45MULAQ60XMX |     |              |     |
| Dimensions | Inch         | mm  | Inch         | mm  | Inch         | mm  |              |     |
| A          | 21           | 534 | 24-1/2       | 546 | 21           | 534 |              |     |
| B          | 24           | 611 | 28           | 706 | 21           | 534 |              |     |
| C          | 19-3/4       | 502 | 21-1/4       | 514 | 28           | 706 |              |     |



CASED DIMENSIONS AND COMPONENT LOCATION

Fig. 2 – Refrigerant Detection Sensor Location (A Coil Models)

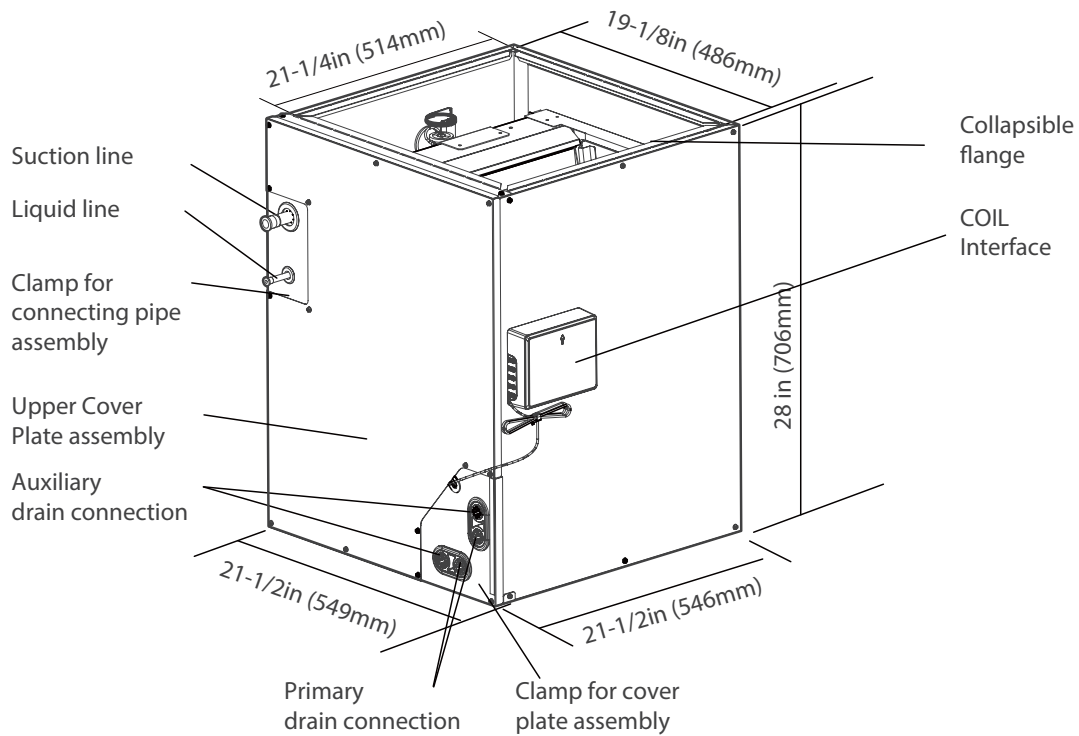


**Fig. 3 – Model 45MULAQ60XMX Dimensions**

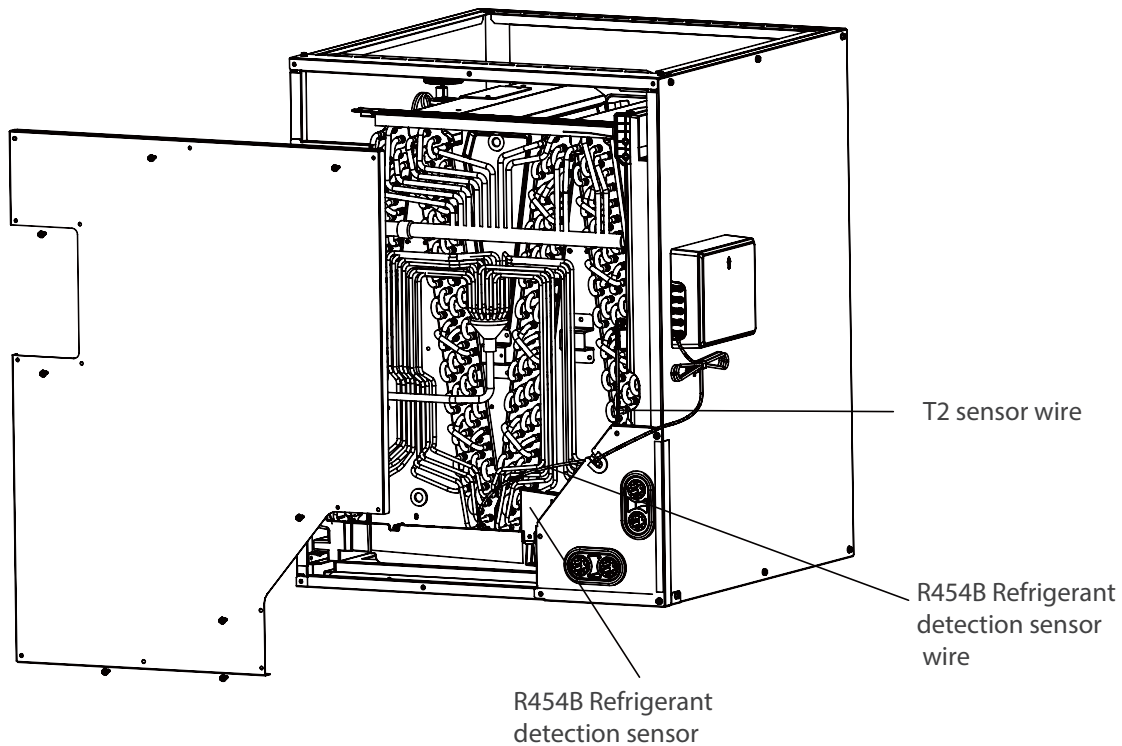


**Fig. 4 – R-454B Sensor Location - Model 45MULAQ60XMX**

# PERFORMANCE DATA - 37MUHA+ 45MULA

Table 2 – 37MUHA+ 45MULACooling Performance (18K - 24A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | TC    | 13584           | 13663            | 14065            | 14191            | 14183            | 14177            | 14176            | 14166            | 14614            | 14607            | 14597            | 14595            | 14585            | 15416            | 15412            | 15401            | 15397            | 15374            | 13584            | 13663            |
| -22°F<br>30°C  | S/T                | 0.96  | 0.99            | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             | 0.96             | 0.99             |                  |
|                | PI                 | 1.31  | 1.31            | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             |                  |
|                | TC                 | 14716 | 14801           | 15237            | 15373            | 15365            | 15358            | 15357            | 15346            | 15832            | 15824            | 15813            | 15812            | 15801            | 16701            | 16697            | 16684            | 16680            | 16655            | 14716            | 14801            |                  |
| -13°F<br>25°C  | S/T                | 0.97  | 1.00            | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.97             | 1.00             |                  |
|                | PI                 | 1.36  | 1.36            | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             |                  |
|                | TC                 | 15848 | 15940           | 16409            | 16556            | 16547            | 16539            | 16538            | 16527            | 17050            | 17041            | 17030            | 17028            | 17016            | 17986            | 17981            | 17968            | 17963            | 17936            | 15848            | 15940            |                  |
| -4°F<br>20°C   | S/T                | 0.97  | 1.00            | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.97             | 1.00             |                  |
|                | PI                 | 1.41  | 1.41            | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             |                  |
|                | TC                 | 16437 | 16563           | 17021            | 17095            | 17082            | 17073            | 17071            | 17068            | 17597            | 17587            | 17571            | 17568            | 17552            | 18545            | 18540            | 18540            | 18543            | 18556            | 16437            | 16563            |                  |
| 0°F<br>17.8°C  | S/T                | 0.99  | 1.00            | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 0.99             | 1.00             |                  |
|                | PI                 | 1.42  | 1.42            | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             |                  |
|                | TC                 | 17106 | 17184           | 17709            | 17665            | 17668            | 17670            | 17671            | 17758            | 18243            | 18241            | 18246            | 18247            | 18249            | 19333            | 19327            | 19327            | 19329            | 19340            | 17106            | 17184            |                  |
| 5°F<br>15°C    | S/T                | 1.00  | 1.00            | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 1.00             | 1.00             |                  |
|                | PI                 | 1.43  | 1.43            | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.43             | 1.43             |                  |
|                | TC                 | 17070 | 17219           | 17753            | 17859            | 17849            | 17841            | 17839            | 17830            | 18477            | 18468            | 18454            | 18451            | 18436            | 19638            | 19632            | 19618            | 19614            | 19584            | 17070            | 17219            |                  |
| 14°F<br>10°C   | S/T                | 0.99  | 1.00            | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.99             | 1.00             |                  |
|                | PI                 | 1.39  | 1.39            | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |                  |
|                | TC                 | 17288 | 17388           | 17947            | 17932            | 17933            | 17937            | 17938            | 18022            | 18503            | 18511            | 18523            | 18524            | 18528            | 19734            | 19728            | 19730            | 19734            | 19752            | 17288            | 17388            |                  |
| 17°F<br>10°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 1.00             | 1.00             |                  |
|                | PI                 | 1.37  | 1.37            | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             |                  |
|                | TC                 | 17500 | 17586           | 18161            | 18078            | 18083            | 18085            | 18086            | 18193            | 18716            | 18715            | 18721            | 18722            | 18725            | 19922            | 19916            | 19917            | 19920            | 19934            | 17500            | 17586            |                  |
| 23°F<br>5°C    | S/T                | 1.00  | 1.00            | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             | 1.00             | 1.00             |                  |
|                | PI                 | 1.29  | 1.29            | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.29             | 1.29             |                  |
|                | TC                 | 17712 | 17732           | 18188            | 18526            | 18523            | 18524            | 18525            | 18525            | 19121            | 19120            | 19118            | 19118            | 19120            | 20229            | 20224            | 20220            | 20223            | 20219            | 17712            | 17732            |                  |
| 35°F<br>1.7°C  | S/T                | 0.93  | 0.94            | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             | 0.93             | 0.94             |                  |
|                | PI                 | 1.07  | 1.07            | 1.10             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.07             | 1.07             |                  |
|                | TC                 | 16501 | 16523           | 16992            | 17241            | 17239            | 17240            | 17240            | 17255            | 17793            | 17791            | 17789            | 17789            | 17791            | 18817            | 18812            | 18809            | 18811            | 18808            | 16501            | 16523            |                  |
| 41°F<br>5°C    | S/T                | 0.94  | 0.96            | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             | 0.94             | 0.96             |                  |
|                | PI                 | 1.21  | 1.21            | 1.25             | 1.27             | 1.27             | 1.27             | 1.27             | 1.28             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.21             | 1.21             |                  |
|                | TC                 | 15289 | 15316           | 15787            | 15955            | 15953            | 15954            | 15954            | 15978            | 16463            | 16462            | 16460            | 16461            | 16462            | 17408            | 17404            | 17403            | 17402            | 17399            | 15289            | 15316            |                  |
| 47°F<br>8.3°C  | S/T                | 0.95  | 0.97            | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             | 0.95             | 0.97             |                  |
|                | PI                 | 1.34  | 1.34            | 1.40             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.34             | 1.34             |                  |
|                | TC                 | 15597 | 15686           | 16287            | 15723            | 15732            | 15783            | 15803            | 16307            | 16342            | 16363            | 16373            | 16374            | 16447            | 17519            | 17528            | 17570            | 17575            | 17599            | 15597            | 15686            |                  |
| 50°F<br>10°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             | 1.00             | 1.00             |                  |
|                | PI                 | 1.44  | 1.44            | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             |                  |
|                | TC                 | 15431 | 15524           | 16148            | 15444            | 15451            | 15527            | 15557            | 16167            | 16085            | 16102            | 16109            | 16110            | 16216            | 17314            | 17318            | 17352            | 17356            | 17373            | 15431            | 15524            |                  |
| 59°F<br>15°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             | 1.00             | 1.00             |                  |
|                | PI                 | 1.30  | 1.30            | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.31             | 1.31             | 1.30             | 1.30             |                  |
|                | TC                 | 15278 | 15375           | 16021            | 15168            | 15173            | 15291            | 15391            | 16039            | 15828            | 15841            | 15846            | 15846            | 16026            | 17091            | 17097            | 17124            | 17127            | 17139            | 15278            | 15375            |                  |
| 68°F<br>20°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             | 1.00             | 1.00             |                  |
|                | PI                 | 1.17  | 1.17            | 1.18             | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.17             | 1.17             |                  |
|                | TC                 | 15067 | 15167           | 15838            | 14878            | 14885            | 15056            | 15185            | 15856            | 15557            | 15575            | 15582            | 15600            | 15870            | 16849            | 16864            | 16902            | 16906            | 16925            | 15067            | 15167            |                  |
| 77°F<br>25°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             | 1.00             |                  |
|                | PI                 | 1.04  | 1.04            | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.04             | 1.04             |                  |
|                | TC                 | 15182 | 15285           | 15980            | 14931            | 14955            | 15200            | 15304            | 15998            | 15629            | 15650            | 15658            | 15682            | 16013            | 16952            | 16974            | 17017            | 17021            | 17042            | 15182            | 15285            |                  |
| 82°F<br>27.8°C | S/T                | 1.00  | 1.00            | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             | 1.00             | 1.00             |                  |
|                | PI                 | 1.07  | 1.07            | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             | 1.07             | 1.07             |                  |
|                | TC                 | 15552 | 15660           | 16390            | 15228            | 15259            | 15571            | 15679            | 16402            | 15954            | 15973            | 15998            | 16013            | 16418            | 17326            | 17351            | 17391            | 17396            | 17414            | 15552            | 15660            |                  |
| 86°F<br>30°C   | S/T                | 1.00  | 1.00            | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             | 1.00             | 1.00             |                  |
|                | PI                 | 1.22  | 1.22            | 1.23             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.23             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 2 – 37MUHA+ 45MULACooling Performance (18K - 24A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 617            | -22°F<br>30°C      | TC    | 18748            | 18826            | 19344            | 19295            | 19279            | 19267            | 19265            | 19249            | 19872            | 19847            | 19828            | 19825            | 19806            | 20961            | 20955            | 20912            | 20904            | 20860            | 18748            | 18826            |
|                |                    | S/T   | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 0.99             | 0.99             |
|                |                    | PI    | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.75             | 1.75             |
|                | -13°F<br>25°C      | TC    | 20311            | 20395            | 20956            | 20903            | 20885            | 20872            | 20870            | 20853            | 21528            | 21500            | 21480            | 21477            | 21457            | 22707            | 22701            | 22655            | 22646            | 22598            | 20311            | 20395            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.82             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | -4°F<br>20°C       | TC    | 21873            | 21964            | 22568            | 22510            | 22492            | 22478            | 22476            | 22457            | 23184            | 23154            | 23132            | 23129            | 23107            | 24454            | 24448            | 24397            | 24388            | 24337            | 21873            | 21964            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.87             | 1.87             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.88             | 1.88             |
|                | 0°F<br>17.8°C      | TC    | 22691            | 22786            | 23412            | 23247            | 23221            | 23203            | 23201            | 23434            | 23930            | 23896            | 23867            | 23863            | 23852            | 25217            | 25212            | 25209            | 25213            | 25229            | 22691            | 22786            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 1.00             | 1.00             |
|                |                    | PI    | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.90             | 1.90             |
|                | 5°F<br>15°C        | TC    | 23535            | 23644            | 24372            | 24006            | 24012            | 24013            | 24038            | 24396            | 24773            | 24780            | 24785            | 24785            | 24818            | 26226            | 26218            | 26232            | 26235            | 26246            | 23535            | 23644            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 1.00             | 1.00             |
|                |                    | PI    | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.92             | 1.92             |
|                | 14°F<br>10°C       | TC    | 23603            | 23713            | 24449            | 24291            | 24270            | 24253            | 24250            | 24477            | 25123            | 25092            | 25066            | 25062            | 25037            | 26714            | 26706            | 26655            | 26645            | 26588            | 23603            | 23713            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.87             | 1.87             | 1.87             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             |
|                | 17°F<br>10°C       | TC    | 23771            | 23887            | 24662            | 24311            | 24321            | 24325            | 24346            | 24689            | 25141            | 25150            | 25160            | 25161            | 25192            | 26738            | 26730            | 26726            | 26731            | 26754            | 23771            | 23887            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 1.00             | 1.00             |
|                |                    | PI    | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.84             | 1.84             |
|                | 23°F<br>5°C        | TC    | 24091            | 24210            | 25008            | 24567            | 24574            | 24577            | 24609            | 25035            | 25414            | 25423            | 25430            | 25430            | 25471            | 27023            | 27015            | 27034            | 27038            | 27053            | 24091            | 24210            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 1.00             | 1.00             |
|                |                    | PI    | 1.74             | 1.74             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.79             | 1.79             | 1.79             | 1.79             | 1.74             | 1.74             |
|                | 35°F<br>1.7°C      | TC    | 24199            | 24266            | 25049            | 25181            | 25180            | 25182            | 25249            | 25969            | 25967            | 25969            | 25969            | 25969            | 25972            | 27431            | 27425            | 27424            | 27422            | 27425            | 24199            | 24266            |
|                |                    | S/T   | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.97             | 0.99             |
|                |                    | PI    | 1.44             | 1.45             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.44             | 1.45             |
|                | 41°F<br>5°C        | TC    | 22570            | 22727            | 23399            | 23433            | 23432            | 23434            | 23434            | 23516            | 24164            | 24162            | 24164            | 24164            | 24166            | 25520            | 25514            | 25512            | 25511            | 25514            | 22570            | 22727            |
|                |                    | S/T   | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             | 0.98             | 1.00             |
|                |                    | PI    | 1.63             | 1.64             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.79             | 1.79             | 1.79             | 1.79             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.63             | 1.64             |
|                | 47°F<br>8.3°C      | TC    | 21017            | 21111            | 21735            | 21686            | 21685            | 21686            | 21685            | 21786            | 22359            | 22357            | 22359            | 22359            | 23611            | 23605            | 23603            | 23602            | 23605            | 21017            | 21111            |                  |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.83             | 1.84             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.92             | 2.00             | 2.00             | 2.00             | 2.00             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 1.83             | 1.84             |
|                | 50°F<br>10°C       | TC    | 21482            | 21606            | 22444            | 21366            | 21377            | 21525            | 21593            | 22465            | 22199            | 22228            | 22240            | 22241            | 22455            | 23729            | 23792            | 23853            | 23860            | 23890            | 21482            | 21606            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             | 1.00             | 1.00             |
|                |                    | PI    | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             |
|                | 59°F<br>15°C       | TC    | 21259            | 21389            | 22259            | 20986            | 21015            | 21253            | 21412            | 22281            | 21852            | 21874            | 21882            | 21914            | 22299            | 23465            | 23512            | 23559            | 23564            | 23583            | 21259            | 21389            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             | 1.00             |
|                |                    | PI    | 1.75             | 1.76             | 1.76             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.75             | 1.76             |
|                | 68°F<br>20°C       | TC    | 21021            | 21154            | 22052            | 20579            | 20626            | 21043            | 21177            | 22074            | 21469            | 21485            | 21524            | 21543            | 22092            | 23133            | 23176            | 23212            | 23216            | 23228            | 21021            | 21154            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             | 1.00             | 1.00             |
|                |                    | PI    | 1.57             | 1.58             | 1.59             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.57             | 1.58             |
|                | 77°F<br>25°C       | TC    | 20727            | 20865            | 21798            | 20175            | 20239            | 20750            | 20889            | 21820            | 21088            | 21112            | 21166            | 21190            | 21838            | 22776            | 22845            | 22898            | 22904            | 22925            | 20727            | 20865            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             | 1.00             | 1.00             |
|                |                    | PI    | 1.40             | 1.40             | 1.41             | 1.39             | 1.39             | 1.40             | 1.40             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.42             | 1.42             | 1.42             | 1.41             | 1.40             | 1.40             |
|                | 82°F<br>27.8°C     | TC    | 20879            | 21021            | 21983            | 20235            | 20313            | 20897            | 21044            | 22006            | 21176            | 21203            | 21269            | 21295            | 22026            | 22896            | 22982            | 23042            | 23048            | 23073            | 20879            | 21021            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             | 1.00             | 1.00             |
|                |                    | PI    | 1.44             | 1.44             | 1.45             | 1.43             | 1.43             | 1.44             | 1.44             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.46             | 1.46             | 1.46             | 1.45             | 1.44             | 1.44             |
|                | 86°F<br>30°C       | TC    | 21398            | 21547            | 22550            | 20648            | 20743            | 21421            | 21572            | 22574            | 21627            | 21652            | 21731            | 21762            | 22593            | 23413            | 23504            | 23560            | 23565            | 23587            | 21398            | 21547            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             |                  |                  |                  |                  |                  |                  |

Table 3 – 37MUHA+ 45MULAH Heating Performance (18K - 24A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 441              | -22°F (-30.0°C)                                    | 9817                                | 9621             | 9573             | 9535               | 9449               | 2.29                   | 2.31             | 2.31             | 2.31               | 2.32               |
|                  | -13°F (-25.0°C)                                    | 11525                               | 11295            | 11238            | 11193              | 11092              | 2.46                   | 2.48             | 2.49             | 2.49               | 2.50               |
|                  | -4°F (-20.0°C)                                     | 14225                               | 13940            | 13871            | 13815              | 13691              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 0°F (-17.8°C)                                      | 14930                               | 14631            | 14558            | 14500              | 14370              | 2.85                   | 2.87             | 2.88             | 2.88               | 2.89               |
|                  | 5°F (-15.0°C)                                      | 15812                               | 15495            | 15418            | 15356              | 15218              | 2.91                   | 2.93             | 2.94             | 2.94               | 2.95               |
|                  | 14°F (-10.0°C)                                     | 16984                               | 16645            | 16561            | 16495              | 16347              | 2.80                   | 2.83             | 2.83             | 2.84               | 2.85               |
|                  | 17°F (-8.3°C)                                      | 17375                               | 17028            | 16943            | 16875              | 16723              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.82               |
|                  | 22°F (-5.6°C)                                      | 16734                               | 16399            | 16317            | 16252              | 16106              | 2.58                   | 2.60             | 2.61             | 2.61               | 2.62               |
|                  | 27°F (-2.8°C)                                      | 16093                               | 15771            | 15692            | 15630              | 15489              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 32°F (0.0°C)                                       | 15452                               | 15143            | 15067            | 15007              | 14872              | 2.20                   | 2.22             | 2.22             | 2.23               | 2.24               |
|                  | 35°F (1.7°C)                                       | 15067                               | 14766            | 14692            | 14633              | 14502              | 2.09                   | 2.10             | 2.11             | 2.11               | 2.12               |
|                  | 37°F (2.8°C)                                       | 15428                               | 15120            | 15044            | 14984              | 14849              | 2.07                   | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 42°F (5.6°C)                                       | 16331                               | 16004            | 15924            | 15861              | 15718              | 2.04                   | 2.05             | 2.06             | 2.06               | 2.07               |
|                  | 44.6°F (7.0°C)                                     | 16692                               | 16358            | 16276            | 16211              | 16065              | 2.02                   | 2.04             | 2.04             | 2.05               | 2.05               |
|                  | 47°F (8.3°C)                                       | 17234                               | 16889            | 16805            | 16737              | 16587              | 2.00                   | 2.02             | 2.02             | 2.02               | 2.03               |
|                  | 52°F (11.1°C)                                      | 16071                               | 15750            | 15671            | 15609              | 15468              | 1.92                   | 1.93             | 1.94             | 1.94               | 1.95               |
|                  | 57F (13.9°C)                                       | 14909                               | 14611            | 14538            | 14480              | 14350              | 1.84                   | 1.85             | 1.86             | 1.86               | 1.87               |
|                  | 59°F (15.0°C)                                      | 14444                               | 14156            | 14085            | 14028              | 13902              | 1.81                   | 1.82             | 1.82             | 1.83               | 1.83               |
|                  | 62°F (16.7°C)                                      | 13747                               | 13472            | 13405            | 13351              | 13231              | 1.76                   | 1.77             | 1.77             | 1.78               | 1.78               |
|                  | 64.4°F (18.0°C)                                    | 13189                               | 12925            | 12861            | 12809              | 12694              | 1.72                   | 1.73             | 1.73             | 1.74               | 1.74               |
| 69.8°F (21.0°C)  | 11934                                              | 11695                               | 11637            | 11590            | 11486              | 1.63               | 1.64                   | 1.65             | 1.65             | 1.66               |                    |
| 75.2°F (24.0°C)  | 10679                                              | 10465                               | 10413            | 10371            | 10278              | 1.54               | 1.55                   | 1.56             | 1.56             | 1.57               |                    |
| 617              | -22°F (-30.0°C)                                    | 13335                               | 13068            | 13003            | 12951              | 12835              | 2.31                   | 2.33             | 2.33             | 2.34               | 2.35               |
|                  | -13°F (-25.0°C)                                    | 15655                               | 15342            | 15265            | 15204              | 15067              | 2.49                   | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | -4°F (-20.0°C)                                     | 19322                               | 18936            | 18841            | 18766              | 18597              | 2.83                   | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 0°F (-17.8°C)                                      | 20280                               | 19875            | 19775            | 19696              | 19519              | 2.88                   | 2.90             | 2.90             | 2.91               | 2.92               |
|                  | 5°F (-15.0°C)                                      | 21478                               | 21048            | 20943            | 20859              | 20671              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 14°F (-10.0°C)                                     | 23071                               | 22609            | 22496            | 22406              | 22205              | 2.83                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 17°F (-8.3°C)                                      | 23602                               | 23130            | 23014            | 22922              | 22716              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 22°F (-5.6°C)                                      | 22731                               | 22276            | 22165            | 22076              | 21877              | 2.61                   | 2.63             | 2.63             | 2.64               | 2.65               |
|                  | 27°F (-2.8°C)                                      | 21860                               | 21423            | 21316            | 21230              | 21039              | 2.42                   | 2.43             | 2.44             | 2.44               | 2.45               |
|                  | 32°F (0.0°C)                                       | 20989                               | 20569            | 20466            | 20384              | 20201              | 2.22                   | 2.24             | 2.25             | 2.25               | 2.26               |
|                  | 35°F (1.7°C)                                       | 20466                               | 20057            | 19957            | 19877              | 19698              | 2.11                   | 2.13             | 2.13             | 2.13               | 2.14               |
|                  | 37°F (2.8°C)                                       | 20957                               | 20538            | 20435            | 20353              | 20170              | 2.09                   | 2.11             | 2.12             | 2.12               | 2.13               |
|                  | 42°F (5.6°C)                                       | 22183                               | 21739            | 21631            | 21544              | 21350              | 2.06                   | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | 44.6°F (7.0°C)                                     | 22673                               | 22220            | 22109            | 22020              | 21822              | 2.04                   | 2.06             | 2.06             | 2.07               | 2.08               |
|                  | 47°F (8.3°C)                                       | 23409                               | 22941            | 22826            | 22735              | 22530              | 2.02                   | 2.04             | 2.04             | 2.05               | 2.05               |
|                  | 52°F (11.1°C)                                      | 21831                               | 21394            | 21287            | 21202              | 21011              | 1.94                   | 1.95             | 1.96             | 1.96               | 1.97               |
|                  | 57F (13.9°C)                                       | 20252                               | 19847            | 19748            | 19669              | 19492              | 1.86                   | 1.87             | 1.87             | 1.88               | 1.89               |
|                  | 59°F (15.0°C)                                      | 19620                               | 19228            | 19132            | 19055              | 18884              | 1.82                   | 1.84             | 1.84             | 1.85               | 1.85               |
|                  | 62°F (16.7°C)                                      | 18673                               | 18300            | 18208            | 18135              | 17972              | 1.77                   | 1.79             | 1.79             | 1.80               | 1.80               |
|                  | 64.4°F (18.0°C)                                    | 17916                               | 17557            | 17469            | 17400              | 17243              | 1.73                   | 1.75             | 1.75             | 1.76               | 1.76               |
| 69.8°F (21.0°C)  | 16211                                              | 15886                               | 15807            | 15744            | 15602              | 1.65               | 1.66                   | 1.66             | 1.67             | 1.67               |                    |
| 75.2°F (24.0°C)  | 14506                                              | 14216                               | 14145            | 14088            | 13961              | 1.56               | 1.57                   | 1.57             | 1.58             | 1.58               |                    |

Table 4 – 37MUHA+ 45MULACooling Performance (18K - 24B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
| 441            | -22°F<br>30°C      | TC    | 13584           | 13663            | 14065            | 14191            | 14183            | 14177            | 14176            | 14166            | 14614            | 14607            | 14597            | 14595            | 14585            | 15416            | 15412            | 15401            | 15397            | 15374            | 13584            | 13663            |
|                |                    | S/T   | 0.96            | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             | 0.96             | 0.99             |
|                |                    | PI    | 1.31            | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             |
|                | -13°F<br>25°C      | TC    | 14716           | 14801            | 15237            | 15373            | 15365            | 15358            | 15357            | 15346            | 15832            | 15824            | 15813            | 15812            | 15801            | 16701            | 16697            | 16684            | 16680            | 16655            | 14716            | 14801            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.97             | 1.00             |
|                |                    | PI    | 1.36            | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             |
|                | -4°F<br>20°C       | TC    | 15848           | 15940            | 16409            | 16556            | 16547            | 16539            | 16538            | 16527            | 17050            | 17041            | 17030            | 17028            | 17016            | 17986            | 17981            | 17968            | 17963            | 17936            | 15848            | 15940            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.97             | 1.00             |
|                |                    | PI    | 1.41            | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.41             |
|                | 0°F<br>17.8°C      | TC    | 16437           | 16563            | 17021            | 17095            | 17082            | 17073            | 17071            | 17068            | 17597            | 17587            | 17571            | 17568            | 17552            | 18545            | 18540            | 18540            | 18543            | 18556            | 16437            | 16563            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 0.99             | 1.00             |
|                |                    | PI    | 1.42            | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             |
|                | 5°F<br>15°C        | TC    | 17106           | 17184            | 17709            | 17665            | 17668            | 17670            | 17671            | 17758            | 18243            | 18241            | 18246            | 18247            | 18249            | 19333            | 19327            | 19327            | 19329            | 19340            | 17106            | 17184            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 1.00             | 1.00             |
|                |                    | PI    | 1.43            | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.43             | 1.43             |
|                | 14°F<br>10°C       | TC    | 17070           | 17219            | 17753            | 17859            | 17849            | 17841            | 17839            | 17830            | 18477            | 18468            | 18454            | 18451            | 18436            | 19638            | 19632            | 19618            | 19614            | 19584            | 17070            | 17219            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.99             | 1.00             |
|                |                    | PI    | 1.39            | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 17°F<br>10°C       | TC    | 17288           | 17388            | 17947            | 17932            | 17933            | 17937            | 17938            | 18022            | 18503            | 18511            | 18523            | 18524            | 18528            | 19734            | 19728            | 19730            | 19734            | 19752            | 17288            | 17388            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 1.00             | 1.00             |
|                |                    | PI    | 1.37            | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             |
|                | 23°F<br>5°C        | TC    | 17500           | 17586            | 18161            | 18078            | 18083            | 18085            | 18086            | 18193            | 18716            | 18715            | 18721            | 18722            | 18725            | 19922            | 19916            | 19917            | 19920            | 19934            | 17500            | 17586            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             | 1.00             | 1.00             |
|                |                    | PI    | 1.29            | 1.29             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.29             | 1.29             |
|                | 35°F<br>1.7°C      | TC    | 17712           | 17732            | 18188            | 18526            | 18523            | 18524            | 18525            | 18525            | 19121            | 19120            | 19118            | 19118            | 19120            | 20229            | 20224            | 20220            | 20223            | 20219            | 17712            | 17732            |
|                |                    | S/T   | 0.93            | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             | 0.93             | 0.94             |
|                |                    | PI    | 1.07            | 1.07             | 1.10             | 1.13             | 1.13             | 1.13             | 1.13             | 1.13             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.07             | 1.07             |
|                | 41°F<br>5°C        | TC    | 16501           | 16523            | 16992            | 17241            | 17239            | 17240            | 17240            | 17255            | 17793            | 17791            | 17789            | 17789            | 17791            | 18817            | 18812            | 18809            | 18811            | 18808            | 16501            | 16523            |
|                |                    | S/T   | 0.94            | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             | 0.94             | 0.96             |
|                |                    | PI    | 1.21            | 1.21             | 1.25             | 1.27             | 1.27             | 1.27             | 1.27             | 1.28             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.21             | 1.21             |
|                | 47°F<br>8.3°C      | TC    | 15289           | 15316            | 15787            | 15955            | 15953            | 15954            | 15954            | 15978            | 16463            | 16462            | 16460            | 16461            | 16462            | 17408            | 17404            | 17403            | 17402            | 17399            | 15289            | 15316            |
|                |                    | S/T   | 0.95            | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             | 0.95             | 0.97             |
|                |                    | PI    | 1.34            | 1.34             | 1.40             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.34             | 1.34             |
|                | 50°F<br>10°C       | TC    | 15597           | 15686            | 16287            | 15723            | 15732            | 15783            | 15803            | 16307            | 16342            | 16363            | 16373            | 16374            | 16447            | 17519            | 17528            | 17570            | 17575            | 17599            | 15597            | 15686            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             | 1.00             | 1.00             |
|                |                    | PI    | 1.44            | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             |
|                | 59°F<br>15°C       | TC    | 15431           | 15524            | 16148            | 15444            | 15451            | 15527            | 15557            | 16167            | 16085            | 16102            | 16109            | 16110            | 16216            | 17314            | 17318            | 17352            | 17356            | 17373            | 15431            | 15524            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             | 1.00             | 1.00             |
|                |                    | PI    | 1.30            | 1.30             | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.31             | 1.31             | 1.30             | 1.30             |
|                | 68°F<br>20°C       | TC    | 15278           | 15375            | 16021            | 15168            | 15173            | 15291            | 15391            | 16039            | 15828            | 15841            | 15846            | 15846            | 16026            | 17091            | 17097            | 17124            | 17127            | 17139            | 15278            | 15375            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             | 1.00             | 1.00             |
|                |                    | PI    | 1.17            | 1.17             | 1.18             | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.17             | 1.17             | 1.17             | 1.17             | 1.18             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.17             | 1.17             |
|                | 77°F<br>25°C       | TC    | 15067           | 15167            | 15838            | 14878            | 14885            | 15056            | 15185            | 15856            | 15557            | 15575            | 15582            | 15600            | 15870            | 16849            | 16864            | 16902            | 16906            | 16925            | 15067            | 15167            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             | 1.00             |
|                |                    | PI    | 1.04            | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.04             | 1.04             |
|                | 82°F<br>27.8°C     | TC    | 15182           | 15285            | 15980            | 14931            | 14955            | 15200            | 15304            | 15998            | 15629            | 15650            | 15658            | 15682            | 16013            | 16952            | 16974            | 17017            | 17021            | 17042            | 15182            | 15285            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             | 1.00             | 1.00             |
|                |                    | PI    | 1.07            | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             | 1.07             | 1.07             |
|                | 86°F<br>30°C       | TC    | 15552           | 15660            | 16390            | 15228            | 15259            | 15571            | 15679            | 16402            | 15954            | 15973            | 15998            | 16013            | 16418            | 17326            | 17351            | 17391            | 17396            | 17414            | 15552            | 15660            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             | 1.00             | 1.00             |
|                |                    | PI    | 1.22            | 1.22             | 1.23             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.               |                  |                  |                  |                  |                  |                  |

Table 4 – 37MUHA+ 45MULACooling Performance (18K - 24B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 617            | -22°F<br>30°C      | TC    | 18748            | 18826            | 19344            | 19295            | 19279            | 19267            | 19265            | 19249            | 19872            | 19847            | 19828            | 19825            | 19806            | 20961            | 20955            | 20912            | 20904            | 20860            | 18748            | 18826            |
|                |                    | S/T   | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 0.99             | 0.99             |
|                |                    | PI    | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.75             | 1.75             |
|                | -13°F<br>25°C      | TC    | 20311            | 20395            | 20956            | 20903            | 20885            | 20872            | 20870            | 20853            | 21528            | 21500            | 21480            | 21477            | 21457            | 22707            | 22701            | 22655            | 22646            | 22598            | 20311            | 20395            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.82             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | -4°F<br>20°C       | TC    | 21873            | 21964            | 22568            | 22510            | 22492            | 22478            | 22476            | 22457            | 23184            | 23154            | 23132            | 23129            | 23107            | 24454            | 24448            | 24397            | 24388            | 24337            | 21873            | 21964            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.87             | 1.87             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.88             | 1.88             |
|                | 0°F<br>17.8°C      | TC    | 22691            | 22786            | 23412            | 23247            | 23221            | 23203            | 23201            | 23434            | 23930            | 23896            | 23867            | 23863            | 23852            | 25217            | 25212            | 25209            | 25213            | 25229            | 22691            | 22786            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 1.00             | 1.00             |
|                |                    | PI    | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.90             | 1.90             |
|                | 5°F<br>15°C        | TC    | 23535            | 23644            | 24372            | 24006            | 24012            | 24013            | 24038            | 24396            | 24773            | 24780            | 24785            | 24785            | 24818            | 26226            | 26218            | 26232            | 26235            | 26246            | 23535            | 23644            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 1.00             | 1.00             |
|                |                    | PI    | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.92             | 1.92             |
|                | 14°F<br>10°C       | TC    | 23603            | 23713            | 24449            | 24291            | 24270            | 24253            | 24250            | 24477            | 25123            | 25092            | 25066            | 25062            | 25037            | 26714            | 26706            | 26655            | 26645            | 26588            | 23603            | 23713            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.87             | 1.87             | 1.87             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             |
|                | 17°F<br>10°C       | TC    | 23771            | 23887            | 24662            | 24311            | 24321            | 24325            | 24346            | 24689            | 25141            | 25150            | 25160            | 25161            | 25192            | 26738            | 26730            | 26726            | 26731            | 26754            | 23771            | 23887            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 1.00             | 1.00             |
|                |                    | PI    | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.84             | 1.84             |
|                | 23°F<br>5°C        | TC    | 24091            | 24210            | 25008            | 24567            | 24574            | 24577            | 24609            | 25035            | 25414            | 25423            | 25430            | 25430            | 25471            | 27023            | 27015            | 27034            | 27038            | 27053            | 24091            | 24210            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 1.00             | 1.00             |
|                |                    | PI    | 1.74             | 1.74             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.76             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.74             | 1.74             |
|                | 35°F<br>1.7°C      | TC    | 24199            | 24266            | 25049            | 25181            | 25180            | 25182            | 25182            | 25249            | 25969            | 25967            | 25969            | 25969            | 25972            | 27431            | 27425            | 27424            | 27422            | 27425            | 24199            | 24266            |
|                |                    | S/T   | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.97             | 0.99             |
|                |                    | PI    | 1.44             | 1.45             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.44             | 1.45             |
|                | 41°F<br>5°C        | TC    | 22570            | 22727            | 23399            | 23433            | 23432            | 23434            | 23434            | 23516            | 24164            | 24162            | 24164            | 24164            | 24166            | 25520            | 25514            | 25512            | 25511            | 25514            | 22570            | 22727            |
|                |                    | S/T   | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             | 0.98             | 1.00             |
|                |                    | PI    | 1.63             | 1.64             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.63             | 1.64             |
|                | 47°F<br>8.3°C      | TC    | 21017            | 21111            | 21735            | 21686            | 21685            | 21686            | 21685            | 21786            | 22359            | 22357            | 22359            | 22359            | 23611            | 23605            | 23603            | 23603            | 23602            | 23605            | 21017            | 21111            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 1.00             | 1.00             |
|                |                    | PI    | 1.83             | 1.84             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.92             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 1.83             | 1.84             |
|                | 50°F<br>10°C       | TC    | 21482            | 21606            | 22444            | 21366            | 21377            | 21525            | 21593            | 22465            | 22199            | 22228            | 22240            | 22241            | 22455            | 23729            | 23792            | 23853            | 23860            | 23890            | 21482            | 21606            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             | 1.00             | 1.00             |
|                |                    | PI    | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             | 1.93             | 1.93             | 1.93             | 1.94             | 1.94             |
|                | 59°F<br>15°C       | TC    | 21259            | 21389            | 22259            | 20986            | 21015            | 21253            | 21412            | 22281            | 21852            | 21874            | 21882            | 21914            | 22299            | 23465            | 23512            | 23559            | 23564            | 23583            | 21259            | 21389            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             | 1.00             |
|                |                    | PI    | 1.75             | 1.76             | 1.76             | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.75             | 1.76             |
|                | 68°F<br>20°C       | TC    | 21021            | 21154            | 22052            | 20579            | 20626            | 21043            | 21177            | 22074            | 21469            | 21485            | 21524            | 21543            | 22092            | 23133            | 23176            | 23212            | 23216            | 23228            | 21021            | 21154            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             | 1.00             | 1.00             |
|                |                    | PI    | 1.57             | 1.58             | 1.59             | 1.57             | 1.57             | 1.57             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.57             | 1.58             |
|                | 77°F<br>25°C       | TC    | 20727            | 20865            | 21798            | 20175            | 20239            | 20750            | 20889            | 21820            | 21088            | 21112            | 21166            | 21190            | 21838            | 22776            | 22845            | 22898            | 22904            | 22925            | 20727            | 20865            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             | 1.00             | 1.00             |
|                |                    | PI    | 1.40             | 1.40             | 1.41             | 1.39             | 1.39             | 1.40             | 1.40             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.41             | 1.40             | 1.40             |
|                | 82°F<br>27.8°C     | TC    | 20879            | 21021            | 21983            | 20235            | 20313            | 20897            | 21044            | 22006            | 21176            | 21203            | 21269            | 21295            | 22026            | 22896            | 22982            | 23042            | 23048            | 23073            | 20879            | 21021            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             | 1.00             | 1.00             |
|                |                    | PI    | 1.44             | 1.44             | 1.45             | 1.43             | 1.43             | 1.44             | 1.44             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.46             | 1.46             | 1.46             | 1.46             | 1.45             | 1.44             | 1.44             |
|                | 86°F<br>30°C       | TC    | 21398            | 21547            | 22550            | 20648            | 20743            | 21421            | 21572            | 22574            | 21627            | 21652            | 21731            | 21762            | 22593            | 23413            | 23504            | 23560            | 23565            | 23587            | 21398            | 21547            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             | 1.00             | 1.00             |
|                |                    | PI    | 1.65             | 1.65             | 1.66</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 5 – 37MUHA+ 45MULAH Heating Performance (18K - 24B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 441              | -22°F (-30.0°C)                                    | 9817                                | 9621             | 9573             | 9535               | 9449               | 2.29                   | 2.31             | 2.31             | 2.31               | 2.32               |
|                  | -13°F (-25.0°C)                                    | 11525                               | 11295            | 11238            | 11193              | 11092              | 2.46                   | 2.48             | 2.49             | 2.49               | 2.50               |
|                  | -4°F (-20.0°C)                                     | 14225                               | 13940            | 13871            | 13815              | 13691              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 0°F (-17.8°C)                                      | 14930                               | 14631            | 14558            | 14500              | 14370              | 2.85                   | 2.87             | 2.88             | 2.88               | 2.89               |
|                  | 5°F (-15.0°C)                                      | 15812                               | 15495            | 15418            | 15356              | 15218              | 2.91                   | 2.93             | 2.94             | 2.94               | 2.95               |
|                  | 14°F (-10.0°C)                                     | 16984                               | 16645            | 16561            | 16495              | 16347              | 2.80                   | 2.83             | 2.83             | 2.84               | 2.85               |
|                  | 17°F (-8.3°C)                                      | 17375                               | 17028            | 16943            | 16875              | 16723              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.82               |
|                  | 22°F (-5.6°C)                                      | 16734                               | 16399            | 16317            | 16252              | 16106              | 2.58                   | 2.60             | 2.61             | 2.61               | 2.62               |
|                  | 27°F (-2.8°C)                                      | 16093                               | 15771            | 15692            | 15630              | 15489              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 32°F (0.0°C)                                       | 15452                               | 15143            | 15067            | 15007              | 14872              | 2.20                   | 2.22             | 2.22             | 2.23               | 2.24               |
|                  | 35°F (1.7°C)                                       | 15067                               | 14766            | 14692            | 14633              | 14502              | 2.09                   | 2.10             | 2.11             | 2.11               | 2.12               |
|                  | 37°F (2.8°C)                                       | 15428                               | 15120            | 15044            | 14984              | 14849              | 2.07                   | 2.09             | 2.09             | 2.10               | 2.11               |
|                  | 42°F (5.6°C)                                       | 16331                               | 16004            | 15924            | 15861              | 15718              | 2.04                   | 2.05             | 2.06             | 2.06               | 2.07               |
|                  | 44.6°F (7.0°C)                                     | 16692                               | 16358            | 16276            | 16211              | 16065              | 2.02                   | 2.04             | 2.04             | 2.05               | 2.05               |
|                  | 47°F (8.3°C)                                       | 17234                               | 16889            | 16805            | 16737              | 16587              | 2.00                   | 2.02             | 2.02             | 2.02               | 2.03               |
|                  | 52°F (11.1°C)                                      | 16071                               | 15750            | 15671            | 15609              | 15468              | 1.92                   | 1.93             | 1.94             | 1.94               | 1.95               |
|                  | 57F (13.9°C)                                       | 14909                               | 14611            | 14538            | 14480              | 14350              | 1.84                   | 1.85             | 1.86             | 1.86               | 1.87               |
|                  | 59°F (15.0°C)                                      | 14444                               | 14156            | 14085            | 14028              | 13902              | 1.81                   | 1.82             | 1.82             | 1.83               | 1.83               |
|                  | 62°F (16.7°C)                                      | 13747                               | 13472            | 13405            | 13351              | 13231              | 1.76                   | 1.77             | 1.77             | 1.78               | 1.78               |
|                  | 64.4°F (18.0°C)                                    | 13189                               | 12925            | 12861            | 12809              | 12694              | 1.72                   | 1.73             | 1.73             | 1.74               | 1.74               |
| 69.8°F (21.0°C)  | 11934                                              | 11695                               | 11637            | 11590            | 11486              | 1.63               | 1.64                   | 1.65             | 1.65             | 1.66               |                    |
| 75.2°F (24.0°C)  | 10679                                              | 10465                               | 10413            | 10371            | 10278              | 1.54               | 1.55                   | 1.56             | 1.56             | 1.57               |                    |
| 617              | -22°F (-30.0°C)                                    | 13335                               | 13068            | 13003            | 12951              | 12835              | 2.31                   | 2.33             | 2.33             | 2.34               | 2.35               |
|                  | -13°F (-25.0°C)                                    | 15655                               | 15342            | 15265            | 15204              | 15067              | 2.49                   | 2.51             | 2.51             | 2.52               | 2.53               |
|                  | -4°F (-20.0°C)                                     | 19322                               | 18936            | 18841            | 18766              | 18597              | 2.83                   | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 0°F (-17.8°C)                                      | 20280                               | 19875            | 19775            | 19696              | 19519              | 2.88                   | 2.90             | 2.90             | 2.91               | 2.92               |
|                  | 5°F (-15.0°C)                                      | 21478                               | 21048            | 20943            | 20859              | 20671              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 14°F (-10.0°C)                                     | 23071                               | 22609            | 22496            | 22406              | 22205              | 2.83                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | 17°F (-8.3°C)                                      | 23602                               | 23130            | 23014            | 22922              | 22716              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 22°F (-5.6°C)                                      | 22731                               | 22276            | 22165            | 22076              | 21877              | 2.61                   | 2.63             | 2.63             | 2.64               | 2.65               |
|                  | 27°F (-2.8°C)                                      | 21860                               | 21423            | 21316            | 21230              | 21039              | 2.42                   | 2.43             | 2.44             | 2.44               | 2.45               |
|                  | 32°F (0.0°C)                                       | 20989                               | 20569            | 20466            | 20384              | 20201              | 2.22                   | 2.24             | 2.25             | 2.25               | 2.26               |
|                  | 35°F (1.7°C)                                       | 20466                               | 20057            | 19957            | 19877              | 19698              | 2.11                   | 2.13             | 2.13             | 2.13               | 2.14               |
|                  | 37°F (2.8°C)                                       | 20957                               | 20538            | 20435            | 20353              | 20170              | 2.09                   | 2.11             | 2.12             | 2.12               | 2.13               |
|                  | 42°F (5.6°C)                                       | 22183                               | 21739            | 21631            | 21544              | 21350              | 2.06                   | 2.07             | 2.08             | 2.08               | 2.09               |
|                  | 44.6°F (7.0°C)                                     | 22673                               | 22220            | 22109            | 22020              | 21822              | 2.04                   | 2.06             | 2.06             | 2.07               | 2.08               |
|                  | 47°F (8.3°C)                                       | 23409                               | 22941            | 22826            | 22735              | 22530              | 2.02                   | 2.04             | 2.04             | 2.05               | 2.05               |
|                  | 52°F (11.1°C)                                      | 21831                               | 21394            | 21287            | 21202              | 21011              | 1.94                   | 1.95             | 1.96             | 1.96               | 1.97               |
|                  | 57F (13.9°C)                                       | 20252                               | 19847            | 19748            | 19669              | 19492              | 1.86                   | 1.87             | 1.87             | 1.88               | 1.89               |
|                  | 59°F (15.0°C)                                      | 19620                               | 19228            | 19132            | 19055              | 18884              | 1.82                   | 1.84             | 1.84             | 1.85               | 1.85               |
|                  | 62°F (16.7°C)                                      | 18673                               | 18300            | 18208            | 18135              | 17972              | 1.77                   | 1.79             | 1.79             | 1.80               | 1.80               |
|                  | 64.4°F (18.0°C)                                    | 17916                               | 17557            | 17469            | 17400              | 17243              | 1.73                   | 1.75             | 1.75             | 1.76               | 1.76               |
| 69.8°F (21.0°C)  | 16211                                              | 15886                               | 15807            | 15744            | 15602              | 1.65               | 1.66                   | 1.66             | 1.67             | 1.67               |                    |
| 75.2°F (24.0°C)  | 14506                                              | 14216                               | 14145            | 14088            | 13961              | 1.56               | 1.57                   | 1.57             | 1.58             | 1.58               |                    |

Table 6 – 37MUHA+ 45MULACooling Performance (24K - 24A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 529            | -22°F<br>30°C      | TC    | 15469            | 15464            | 15460            | 15549            | 16007            | 16150            | 16142            | 16134            | 16133            | 16122            | 16633            | 16624            | 16613            | 16611            | 16599            | 17545            | 17541            | 17528            | 17523            | 17497            |
|                |                    | S/T   | 0.77             | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.31             | 1.31             | 1.31             | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |
|                | -13°F<br>25°C      | TC    | 16758            | 16753            | 16748            | 16845            | 17341            | 17496            | 17487            | 17479            | 17478            | 17465            | 18019            | 18009            | 17997            | 17995            | 17983            | 19007            | 19002            | 18988            | 18984            | 18955            |
|                |                    | S/T   | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.36             | 1.36             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                | -4°F<br>20°C       | TC    | 18048            | 18041            | 18036            | 18141            | 18675            | 18842            | 18832            | 18823            | 18822            | 18809            | 19405            | 19395            | 19382            | 19379            | 19366            | 20469            | 20464            | 20449            | 20444            | 20413            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                | 0°F<br>17.8°C      | TC    | 18643            | 18635            | 18707            | 18850            | 19372            | 19456            | 19441            | 19430            | 19428            | 19425            | 20027            | 20015            | 19997            | 19994            | 19976            | 21106            | 21100            | 21101            | 21103            | 21119            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.42             | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                | 5°F<br>15°C        | TC    | 19192            | 19209            | 19468            | 19557            | 20155            | 20104            | 20108            | 20111            | 20111            | 20210            | 20762            | 20760            | 20766            | 20767            | 20769            | 22003            | 21996            | 21996            | 21998            | 22010            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                | 14°F<br>10°C       | TC    | 19321            | 19313            | 19393            | 19563            | 20170            | 20290            | 20279            | 20269            | 20267            | 20257            | 20992            | 20982            | 20966            | 20963            | 20945            | 22312            | 22305            | 22289            | 22284            | 22249            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                | 17°F<br>10°C       | TC    | 19388            | 19393            | 19630            | 19743            | 20379            | 20361            | 20363            | 20367            | 20368            | 20464            | 21010            | 21018            | 21032            | 21033            | 21038            | 22408            | 22401            | 22403            | 22408            | 22428            |
|                |                    | S/T   | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             |
|                | 23°F<br>5°C        | TC    | 19273            | 19299            | 19613            | 19710            | 20354            | 20262            | 20267            | 20270            | 20270            | 20390            | 20976            | 20975            | 20982            | 20983            | 20986            | 22328            | 22322            | 22323            | 22325            | 22341            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             |
|                | 35°F<br>1.7°C      | TC    | 19309            | 19309            | 19347            | 19368            | 19866            | 20235            | 20233            | 20233            | 20234            | 20234            | 20886            | 20884            | 20882            | 20882            | 20884            | 22095            | 22090            | 22085            | 22088            | 22084            |
|                |                    | S/T   | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.46             | 1.46             | 1.47             | 1.47             | 1.51             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 41°F<br>5°C        | TC    | 17810            | 17810            | 17859            | 17883            | 18391            | 18660            | 18658            | 18658            | 18659            | 18675            | 19257            | 19255            | 19253            | 19254            | 19256            | 20366            | 20361            | 20356            | 20359            | 20356            |
|                |                    | S/T   | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.18             | 1.18             | 1.18             | 1.18             | 1.22             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.30             | 1.30             | 1.31             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                | 47°F<br>8.3°C      | TC    | 16308            | 16308            | 16371            | 16399            | 16904            | 17084            | 17081            | 17082            | 17082            | 17108            | 17628            | 17626            | 17625            | 17625            | 17626            | 18639            | 18635            | 18633            | 18633            | 18630            |
|                |                    | S/T   | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.89             | 0.89             | 0.90             | 0.90             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             |
|                | 50°F<br>10°C       | TC    | 15944            | 16205            | 16746            | 16842            | 17487            | 16881            | 16891            | 16946            | 16968            | 17508            | 17546            | 17569            | 17579            | 17580            | 17659            | 18810            | 18819            | 18865            | 18870            | 18895            |
|                |                    | S/T   | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 59°F<br>15°C       | TC    | 15760            | 16139            | 16707            | 16808            | 17484            | 16722            | 16729            | 16812            | 16844            | 17504            | 17416            | 17434            | 17442            | 17442            | 17558            | 18746            | 18751            | 18788            | 18792            | 18810            |
|                |                    | S/T   | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             |
|                | 68°F<br>20°C       | TC    | 15590            | 16093            | 16685            | 16790            | 17496            | 16564            | 16570            | 16699            | 16808            | 17516            | 17285            | 17300            | 17304            | 17305            | 17502            | 18664            | 18671            | 18701            | 18704            | 18717            |
|                |                    | S/T   | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.03             | 1.04             | 1.04             | 1.04             | 1.05             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 77°F<br>25°C       | TC    | 15391            | 15980            | 16600            | 16710            | 17449            | 16391            | 16399            | 16587            | 16730            | 17469            | 17140            | 17159            | 17167            | 17187            | 17485            | 18563            | 18580            | 18621            | 18626            | 18646            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.06             | 1.06             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.09             | 1.09             | 1.08             | 1.08             | 1.08             |
|                | 82°F<br>27.8°C     | TC    | 15803            | 16473            | 17129            | 17246            | 18030            | 16846            | 16873            | 17150            | 17267            | 18050            | 17634            | 17657            | 17666            | 17694            | 18067            | 19127            | 19151            | 19199            | 19205            | 19227            |
|                |                    | S/T   | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.22             | 1.22             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.24             |
|                | 86°F<br>30°C       | TC    | 16778            | 17555            | 18267            | 18393            | 19251            | 17886            | 17923            | 18289            | 18415            | 19266            | 18739            | 18761            | 18791            | 18808            | 19284            | 20350            | 20379            | 20427            | 20432            | 20453            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.52             | 1.               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 6 – 37MUHA+ 45MULACooling Performance (24K - 24A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 706            | -22°F<br>30°C      | TC    | 20076            | 20067            | 20354            | 20438            | 21000            | 20947            | 20930            | 20916            | 20914            | 20897            | 21573            | 21546            | 21526            | 21523            | 21502            | 22756            | 22749            | 22703            | 22694            | 22646            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |
|                | -13°F<br>25°C      | TC    | 21750            | 21740            | 22050            | 22141            | 22750            | 22692            | 22674            | 22659            | 22657            | 22639            | 23371            | 23342            | 23319            | 23316            | 23294            | 24652            | 24645            | 24594            | 24585            | 24533            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.74             | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             |
|                | -4°F<br>20°C       | TC    | 23423            | 23412            | 23746            | 23844            | 24500            | 24438            | 24418            | 24402            | 24400            | 24380            | 25169            | 25137            | 25113            | 25110            | 25086            | 26548            | 26541            | 26486            | 26476            | 26420            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.80             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                | 0°F<br>17.8°C      | TC    | 24200            | 24186            | 24634            | 24737            | 25417            | 25238            | 25210            | 25190            | 25187            | 25441            | 25980            | 25943            | 25910            | 25907            | 25894            | 27377            | 27370            | 27368            | 27372            | 27390            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                | 5°F<br>15°C        | TC    | 24894            | 24979            | 25550            | 25668            | 26459            | 26061            | 26068            | 26070            | 26096            | 26485            | 26895            | 26901            | 26907            | 26908            | 26944            | 28472            | 28463            | 28478            | 28481            | 28494            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 14°F<br>10°C       | TC    | 25080            | 25068            | 25579            | 25699            | 26496            | 26325            | 26302            | 26284            | 26281            | 26527            | 27227            | 27193            | 27165            | 27161            | 27134            | 28951            | 28942            | 28887            | 28877            | 28815            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                | 17°F<br>10°C       | TC    | 25083            | 25165            | 25747            | 25872            | 26713            | 26332            | 26343            | 26348            | 26370            | 26741            | 27231            | 27241            | 27252            | 27253            | 27287            | 28960            | 28952            | 28948            | 28953            | 28978            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
|                | 23°F<br>5°C        | TC    | 24999            | 25106            | 25756            | 25883            | 26736            | 26265            | 26272            | 26275            | 26310            | 26765            | 27170            | 27180            | 27187            | 27188            | 27231            | 28890            | 28881            | 28902            | 28906            | 28923            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                | 35°F<br>1.7°C      | TC    | 25065            | 25066            | 25213            | 25283            | 26099            | 26236            | 26235            | 26238            | 26238            | 26308            | 27058            | 27056            | 27057            | 27058            | 27061            | 28581            | 28574            | 28573            | 28572            | 28574            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.87             | 1.87             | 1.89             | 1.89             | 1.97             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 41°F<br>5°C        | TC    | 23117            | 23118            | 23302            | 23464            | 24157            | 24192            | 24192            | 24193            | 24193            | 24278            | 24947            | 24945            | 24947            | 24947            | 24949            | 26347            | 26340            | 26339            | 26337            | 26340            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.51             | 1.51             | 1.52             | 1.54             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | 47°F<br>8.3°C      | TC    | 21168            | 21182            | 21466            | 21562            | 22200            | 22149            | 22148            | 22149            | 22149            | 22251            | 22837            | 22835            | 22837            | 22836            | 22836            | 24115            | 24109            | 24107            | 24106            | 24109            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.14             | 1.14             | 1.17             | 1.17             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.28             | 1.27             | 1.27             | 1.28             | 1.28             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 50°F<br>10°C       | TC    | 20713            | 21283            | 22001            | 22129            | 22987            | 21882            | 21894            | 22045            | 22115            | 23008            | 22736            | 22765            | 22777            | 22779            | 22998            | 24303            | 24367            | 24430            | 24437            | 24468            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
|                | 59°F<br>15°C       | TC    | 20486            | 21204            | 21957            | 22090            | 22989            | 21675            | 21704            | 21951            | 22114            | 23012            | 22569            | 22592            | 22599            | 22632            | 23031            | 24234            | 24283            | 24331            | 24337            | 24357            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             |
|                | 68°F<br>20°C       | TC    | 20250            | 21114            | 21897            | 22037            | 22972            | 21438            | 21486            | 21921            | 22060            | 22995            | 22365            | 22382            | 22422            | 22441            | 23013            | 24098            | 24143            | 24181            | 24184            | 24197            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.33             | 1.33             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.37             | 1.37             | 1.36             | 1.36             | 1.36             |
|                | 77°F<br>25°C       | TC    | 20000            | 20963            | 21783            | 21928            | 22908            | 21202            | 21269            | 21807            | 21952            | 22931            | 22162            | 22187            | 22244            | 22269            | 22950            | 23936            | 24009            | 24064            | 24070            | 24093            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.36             | 1.37             | 1.37             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 82°F<br>27.8°C     | TC    | 20551            | 21600            | 22471            | 22624            | 23660            | 21778            | 21862            | 22491            | 22649            | 23684            | 22791            | 22819            | 22890            | 22919            | 23705            | 24641            | 24734            | 24799            | 24805            | 24832            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.56             | 1.57             | 1.58             | 1.58             | 1.59             | 1.57             | 1.57             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 86°F<br>30°C       | TC    | 21937            | 23032            | 23974            | 24142            | 25266            | 23135            | 23241            | 24001            | 24169            | 25292            | 24231            | 24259            | 24348            | 24383            | 25314            | 26233            | 26334            | 26397            | 26403            | 26428            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.96             | 1.97             | 1.98             | 1.98</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 7 – 37MUHA+ 45MULAH Heating Performance (24K - 24A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F (-30.0°C)                                    | 11172                               | 10949            | 10894            | 10850              | 10753              | 2.65                   | 2.67             | 2.68             | 2.68               | 2.69               |
|                  | -13°F (-25.0°C)                                    | 12641                               | 12388            | 12326            | 12277              | 12167              | 2.81                   | 2.83             | 2.84             | 2.84               | 2.85               |
|                  | -4°F (-20.0°C)                                     | 15012                               | 14712            | 14638            | 14580              | 14449              | 2.88                   | 2.91             | 2.91             | 2.92               | 2.93               |
|                  | 0°F (-17.8°C)                                      | 16022                               | 15701            | 15623            | 15560              | 15420              | 2.72                   | 2.74             | 2.74             | 2.75               | 2.76               |
|                  | 5°F (-15.0°C)                                      | 17283                               | 16938            | 16853            | 16786              | 16635              | 2.50                   | 2.52             | 2.53             | 2.54               | 2.55               |
|                  | 14°F (-10.0°C)                                     | 18136                               | 17773            | 17684            | 17614              | 17455              | 2.94                   | 2.96             | 2.97             | 2.98               | 2.99               |
|                  | 17°F (-8.3°C)                                      | 18420                               | 18052            | 17962            | 17890              | 17729              | 3.09                   | 3.11             | 3.12             | 3.12               | 3.14               |
|                  | 22°F (-5.6°C)                                      | 18455                               | 18086            | 17995            | 17923              | 17762              | 2.95                   | 2.97             | 2.98             | 2.99               | 3.00               |
|                  | 27°F (-2.8°C)                                      | 18489                               | 18120            | 18029            | 17957              | 17795              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 32°F (0.0°C)                                       | 18524                               | 18153            | 18063            | 17990              | 17828              | 2.68                   | 2.70             | 2.71             | 2.71               | 2.72               |
|                  | 35°F (1.7°C)                                       | 18544                               | 18174            | 18083            | 18010              | 17848              | 2.60                   | 2.62             | 2.63             | 2.63               | 2.64               |
|                  | 37°F (2.8°C)                                       | 19432                               | 19043            | 18948            | 18872              | 18703              | 2.63                   | 2.65             | 2.66             | 2.66               | 2.67               |
|                  | 42°F (5.6°C)                                       | 21651                               | 21218            | 21112            | 21027              | 20838              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 44.6°F (7.0°C)                                     | 22539                               | 22088            | 21977            | 21889              | 21692              | 2.74                   | 2.76             | 2.77             | 2.77               | 2.78               |
|                  | 47°F (8.3°C)                                       | 23870                               | 23393            | 23276            | 23182              | 22974              | 2.79                   | 2.81             | 2.82             | 2.82               | 2.83               |
|                  | 52°F (11.1°C)                                      | 22719                               | 22265            | 22153            | 22065              | 21866              | 2.65                   | 2.67             | 2.68             | 2.68               | 2.69               |
|                  | 57°F (13.9°C)                                      | 21568                               | 21137            | 21031            | 20947              | 20759              | 2.51                   | 2.53             | 2.54             | 2.54               | 2.55               |
|                  | 59°F (15.0°C)                                      | 21108                               | 20686            | 20582            | 20500              | 20316              | 2.45                   | 2.47             | 2.48             | 2.48               | 2.49               |
|                  | 62°F (16.7°C)                                      | 20417                               | 20009            | 19909            | 19829              | 19651              | 2.37                   | 2.39             | 2.39             | 2.40               | 2.41               |
|                  | 64.4°F (18.0°C)                                    | 19865                               | 19468            | 19370            | 19293              | 19119              | 2.30                   | 2.32             | 2.33             | 2.33               | 2.34               |
| 69.8°F (21.0°C)  | 18622                                              | 18250                               | 18158            | 18086            | 17923              | 2.15               | 2.17                   | 2.18             | 2.18             | 2.19               |                    |
| 75.2°F (24.0°C)  | 17379                                              | 17032                               | 16947            | 16879            | 16727              | 2.00               | 2.02                   | 2.02             | 2.03             | 2.04               |                    |
| 706              | -22°F (-30.0°C)                                    | 14476                               | 14186            | 14115            | 14059              | 13932              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | -13°F (-25.0°C)                                    | 16379                               | 16052            | 15972            | 15908              | 15765              | 2.84                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | -4°F (-20.0°C)                                     | 19452                               | 19063            | 18967            | 18891              | 18721              | 2.91                   | 2.94             | 2.94             | 2.95               | 2.96               |
|                  | 0°F (-17.8°C)                                      | 20760                               | 20344            | 20243            | 20162              | 19980              | 2.74                   | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 5°F (-15.0°C)                                      | 22394                               | 21947            | 21837            | 21749              | 21554              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 14°F (-10.0°C)                                     | 23499                               | 23029            | 22914            | 22822              | 22617              | 2.97                   | 2.99             | 3.00             | 3.01               | 3.02               |
|                  | 17°F (-8.3°C)                                      | 23868                               | 23390            | 23273            | 23180              | 22972              | 3.12                   | 3.14             | 3.15             | 3.15               | 3.17               |
|                  | 22°F (-5.6°C)                                      | 23912                               | 23434            | 23317            | 23224              | 23015              | 2.98                   | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 27°F (-2.8°C)                                      | 23957                               | 23478            | 23360            | 23267              | 23058              | 2.84                   | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 32°F (0.0°C)                                       | 24002                               | 23522            | 23404            | 23310              | 23101              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 35°F (1.7°C)                                       | 24029                               | 23548            | 23430            | 23336              | 23126              | 2.63                   | 2.65             | 2.65             | 2.66               | 2.67               |
|                  | 37°F (2.8°C)                                       | 25179                               | 24675            | 24552            | 24453              | 24233              | 2.66                   | 2.68             | 2.68             | 2.69               | 2.70               |
|                  | 42°F (5.6°C)                                       | 28054                               | 27493            | 27355            | 27246              | 27001              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F (7.0°C)                                     | 29204                               | 28620            | 28477            | 28363              | 28107              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 30929                               | 30310            | 30159            | 30038              | 29768              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 52°F (11.1°C)                                      | 29438                               | 28849            | 28705            | 28590              | 28333              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 57°F (13.9°C)                                      | 27946                               | 27388            | 27251            | 27142              | 26897              | 2.54                   | 2.56             | 2.56             | 2.57               | 2.58               |
|                  | 59°F (15.0°C)                                      | 27350                               | 26803            | 26669            | 26562              | 26323              | 2.48                   | 2.50             | 2.50             | 2.51               | 2.52               |
|                  | 62°F (16.7°C)                                      | 26455                               | 25926            | 25797            | 25693              | 25462              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 64.4°F (18.0°C)                                    | 25740                               | 25225            | 25099            | 24998              | 24773              | 2.33                   | 2.35             | 2.35             | 2.36               | 2.37               |
| 69.8°F (21.0°C)  | 24129                                              | 23647                               | 23528            | 23434            | 23223              | 2.18               | 2.19                   | 2.20             | 2.20             | 2.21               |                    |
| 75.2°F (24.0°C)  | 22519                                              | 22068                               | 21958            | 21870            | 21673              | 2.02               | 2.04                   | 2.05             | 2.05             | 2.06               |                    |

Table 8 – 37MUHA+ 45MULACooling Performance (24K - 24B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 529            | -22°F<br>30°C      | TC    | 15469            | 15464            | 15460            | 15549            | 16007            | 16150            | 16142            | 16134            | 16133            | 16122            | 16633            | 16624            | 16613            | 16611            | 16599            | 17545            | 17541            | 17528            | 17523            | 17497            |
|                |                    | S/T   | 0.77             | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.31             | 1.31             | 1.31             | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |
|                | -13°F<br>25°C      | TC    | 16758            | 16753            | 16748            | 16845            | 17341            | 17496            | 17487            | 17479            | 17478            | 17465            | 18019            | 18009            | 17997            | 17995            | 17983            | 19007            | 19002            | 18988            | 18984            | 18955            |
|                |                    | S/T   | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.36             | 1.36             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                | -4°F<br>20°C       | TC    | 18048            | 18041            | 18036            | 18141            | 18675            | 18842            | 18832            | 18823            | 18822            | 18809            | 19405            | 19395            | 19382            | 19379            | 19366            | 20469            | 20464            | 20449            | 20444            | 20413            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                | 0°F<br>17.8°C      | TC    | 18643            | 18635            | 18707            | 18850            | 19372            | 19456            | 19441            | 19430            | 19428            | 19425            | 20027            | 20015            | 19997            | 19994            | 19976            | 21106            | 21100            | 21101            | 21103            | 21119            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.42             | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                | 5°F<br>15°C        | TC    | 19192            | 19209            | 19468            | 19557            | 20155            | 20104            | 20108            | 20111            | 20111            | 20210            | 20762            | 20760            | 20766            | 20767            | 20769            | 22003            | 21996            | 21996            | 21998            | 22010            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                | 14°F<br>10°C       | TC    | 19321            | 19313            | 19393            | 19563            | 20170            | 20290            | 20279            | 20269            | 20267            | 20257            | 20992            | 20982            | 20966            | 20963            | 20945            | 22312            | 22305            | 22289            | 22284            | 22249            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                | 17°F<br>10°C       | TC    | 19388            | 19393            | 19630            | 19743            | 20379            | 20361            | 20363            | 20367            | 20368            | 20464            | 21010            | 21018            | 21032            | 21033            | 21038            | 22408            | 22401            | 22403            | 22408            | 22428            |
|                |                    | S/T   | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             |
|                | 23°F<br>5°C        | TC    | 19273            | 19299            | 19613            | 19710            | 20354            | 20262            | 20267            | 20270            | 20270            | 20390            | 20976            | 20975            | 20982            | 20983            | 20986            | 22328            | 22322            | 22323            | 22325            | 22341            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             |
|                | 35°F<br>1.7°C      | TC    | 19309            | 19309            | 19347            | 19368            | 19866            | 20235            | 20233            | 20233            | 20234            | 20234            | 20886            | 20884            | 20882            | 20882            | 20884            | 22095            | 22090            | 22085            | 22088            | 22084            |
|                |                    | S/T   | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.46             | 1.46             | 1.47             | 1.47             | 1.51             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 41°F<br>5°C        | TC    | 17810            | 17810            | 17859            | 17883            | 18391            | 18660            | 18658            | 18658            | 18659            | 18675            | 19257            | 19255            | 19253            | 19254            | 19256            | 20366            | 20361            | 20356            | 20359            | 20356            |
|                |                    | S/T   | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.18             | 1.18             | 1.18             | 1.18             | 1.22             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.30             | 1.30             | 1.31             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                | 47°F<br>8.3°C      | TC    | 16308            | 16308            | 16371            | 16399            | 16904            | 17084            | 17081            | 17082            | 17082            | 17108            | 17628            | 17626            | 17625            | 17625            | 17626            | 18639            | 18635            | 18633            | 18633            | 18630            |
|                |                    | S/T   | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.89             | 0.89             | 0.90             | 0.90             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             |
|                | 50°F<br>10°C       | TC    | 15944            | 16205            | 16746            | 16842            | 17487            | 16881            | 16891            | 16946            | 16968            | 17508            | 17546            | 17569            | 17579            | 17580            | 17659            | 18810            | 18819            | 18865            | 18870            | 18895            |
|                |                    | S/T   | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 59°F<br>15°C       | TC    | 15760            | 16139            | 16707            | 16808            | 17484            | 16722            | 16729            | 16812            | 16844            | 17504            | 17416            | 17434            | 17442            | 17442            | 17558            | 18746            | 18751            | 18788            | 18792            | 18810            |
|                |                    | S/T   | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             |
|                | 68°F<br>20°C       | TC    | 15590            | 16093            | 16685            | 16790            | 17496            | 16564            | 16570            | 16699            | 16808            | 17516            | 17285            | 17300            | 17304            | 17305            | 17502            | 18664            | 18671            | 18701            | 18704            | 18717            |
|                |                    | S/T   | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.03             | 1.04             | 1.04             | 1.04             | 1.05             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 77°F<br>25°C       | TC    | 15391            | 15980            | 16600            | 16710            | 17449            | 16391            | 16399            | 16587            | 16730            | 17469            | 17140            | 17159            | 17167            | 17187            | 17485            | 18563            | 18580            | 18621            | 18626            | 18646            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.06             | 1.06             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.09             | 1.09             | 1.08             | 1.08             | 1.08             |
|                | 82°F<br>27.8°C     | TC    | 15803            | 16473            | 17129            | 17246            | 18030            | 16846            | 16873            | 17150            | 17267            | 18050            | 17634            | 17657            | 17666            | 17694            | 18067            | 19127            | 19151            | 19199            | 19205            | 19227            |
|                |                    | S/T   | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.22             | 1.22             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.24             |
|                | 86°F<br>30°C       | TC    | 16778            | 17555            | 18267            | 18393            | 19251            | 17886            | 17923            | 18289            | 18415            | 19266            | 18739            | 18761            | 18791            | 18808            | 19284            | 20350            | 20379            | 20427            | 20432            | 20453            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.               |

Table 8 – 37MUHA+ 45MULACooling Performance (24K - 24B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 706            | -22°F<br>30°C      | TC    | 20076            | 20067            | 20354            | 20438            | 21000            | 20947            | 20930            | 20916            | 20914            | 20897            | 21573            | 21546            | 21526            | 21523            | 21502            | 22756            | 22749            | 22703            | 22694            | 22646            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             |
|                | -13°F<br>25°C      | TC    | 21750            | 21740            | 22050            | 22141            | 22750            | 22692            | 22674            | 22659            | 22657            | 22639            | 23371            | 23342            | 23319            | 23316            | 23294            | 24652            | 24645            | 24594            | 24585            | 24533            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.74             | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             |
|                | -4°F<br>20°C       | TC    | 23423            | 23412            | 23746            | 23844            | 24500            | 24438            | 24418            | 24402            | 24400            | 24380            | 25169            | 25137            | 25113            | 25110            | 25086            | 26548            | 26541            | 26486            | 26476            | 26420            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.80             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                | 0°F<br>17.8°C      | TC    | 24200            | 24186            | 24634            | 24737            | 25417            | 25238            | 25210            | 25190            | 25187            | 25441            | 25980            | 25943            | 25910            | 25907            | 25894            | 27377            | 27370            | 27368            | 27372            | 27390            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                | 5°F<br>15°C        | TC    | 24894            | 24979            | 25550            | 25668            | 26459            | 26061            | 26068            | 26070            | 26096            | 26485            | 26895            | 26901            | 26907            | 26908            | 26944            | 28472            | 28463            | 28478            | 28481            | 28494            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 14°F<br>10°C       | TC    | 25080            | 25068            | 25579            | 25699            | 26496            | 26325            | 26302            | 26284            | 26281            | 26527            | 27227            | 27193            | 27165            | 27161            | 27134            | 28951            | 28942            | 28887            | 28877            | 28815            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                | 17°F<br>10°C       | TC    | 25083            | 25165            | 25747            | 25872            | 26713            | 26332            | 26343            | 26348            | 26370            | 26741            | 27231            | 27241            | 27252            | 27253            | 27287            | 28960            | 28952            | 28948            | 28953            | 28978            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
|                | 23°F<br>5°C        | TC    | 24999            | 25106            | 25756            | 25883            | 26736            | 26265            | 26272            | 26275            | 26310            | 26765            | 27170            | 27180            | 27187            | 27188            | 27231            | 28890            | 28881            | 28902            | 28906            | 28923            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                | 35°F<br>1.7°C      | TC    | 25065            | 25066            | 25213            | 25283            | 26099            | 26236            | 26235            | 26238            | 26238            | 26308            | 27058            | 27056            | 27057            | 27058            | 27061            | 28581            | 28574            | 28573            | 28572            | 28574            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.87             | 1.87             | 1.89             | 1.89             | 1.97             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 41°F<br>5°C        | TC    | 23117            | 23118            | 23302            | 23464            | 24157            | 24192            | 24192            | 24193            | 24193            | 24278            | 24947            | 24945            | 24947            | 24947            | 24949            | 26347            | 26340            | 26339            | 26337            | 26340            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.51             | 1.51             | 1.52             | 1.54             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | 47°F<br>8.3°C      | TC    | 21168            | 21182            | 21466            | 21562            | 22200            | 22149            | 22148            | 22149            | 22149            | 22251            | 22837            | 22835            | 22837            | 22836            | 22836            | 24115            | 24109            | 24107            | 24106            | 24109            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.14             | 1.14             | 1.17             | 1.17             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.28             | 1.27             | 1.27             | 1.28             | 1.28             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 50°F<br>10°C       | TC    | 20713            | 21283            | 22001            | 22129            | 22987            | 21882            | 21894            | 22045            | 22115            | 23008            | 22736            | 22765            | 22777            | 22779            | 22998            | 24303            | 24367            | 24430            | 24437            | 24468            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
|                | 59°F<br>15°C       | TC    | 20486            | 21204            | 21957            | 22090            | 22989            | 21675            | 21704            | 21951            | 22114            | 23012            | 22569            | 22592            | 22599            | 22632            | 23031            | 24234            | 24283            | 24331            | 24337            | 24357            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             |
|                | 68°F<br>20°C       | TC    | 20250            | 21114            | 21897            | 22037            | 22972            | 21438            | 21486            | 21921            | 22060            | 22995            | 22365            | 22382            | 22422            | 22441            | 23013            | 24098            | 24143            | 24181            | 24184            | 24197            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.33             | 1.33             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.37             | 1.37             | 1.36             | 1.36             | 1.36             |
|                | 77°F<br>25°C       | TC    | 20000            | 20963            | 21783            | 21928            | 22908            | 21202            | 21269            | 21807            | 21952            | 22931            | 22162            | 22187            | 22244            | 22269            | 22950            | 23936            | 24009            | 24064            | 24070            | 24093            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.36             | 1.37             | 1.37             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 82°F<br>27.8°C     | TC    | 20551            | 21600            | 22471            | 22624            | 23660            | 21778            | 21862            | 22491            | 22649            | 23684            | 22791            | 22819            | 22890            | 22919            | 23705            | 24641            | 24734            | 24799            | 24805            | 24832            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.56             | 1.57             | 1.58             | 1.58             | 1.59             | 1.57             | 1.57             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 86°F<br>30°C       | TC    | 21937            | 23032            | 23974            | 24142            | 25266            | 23135            | 23241            | 24001            | 24169            | 25292            | 24231            | 24259            | 24348            | 24383            | 25314            | 26233            | 26334            | 26397            | 26403            | 26428            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.96             | 1.97             | 1.98             | 1.9              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 9 – 37MUHA+ 45MULAH Heating Performance (24K - 24B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -22°F (-30.0°C)                                    | 11172                               | 10949            | 10894            | 10850              | 10753              | 2.65                   | 2.67             | 2.68             | 2.68               | 2.69               |
|                  | -13°F (-25.0°C)                                    | 12641                               | 12388            | 12326            | 12277              | 12167              | 2.81                   | 2.83             | 2.84             | 2.84               | 2.85               |
|                  | -4°F (-20.0°C)                                     | 15012                               | 14712            | 14638            | 14580              | 14449              | 2.88                   | 2.91             | 2.91             | 2.92               | 2.93               |
|                  | 0°F (-17.8°C)                                      | 16022                               | 15701            | 15623            | 15560              | 15420              | 2.72                   | 2.74             | 2.74             | 2.75               | 2.76               |
|                  | 5°F (-15.0°C)                                      | 17283                               | 16938            | 16853            | 16786              | 16635              | 2.50                   | 2.52             | 2.53             | 2.54               | 2.55               |
|                  | 14°F (-10.0°C)                                     | 18136                               | 17773            | 17684            | 17614              | 17455              | 2.94                   | 2.96             | 2.97             | 2.98               | 2.99               |
|                  | 17°F (-8.3°C)                                      | 18420                               | 18052            | 17962            | 17890              | 17729              | 3.09                   | 3.11             | 3.12             | 3.12               | 3.14               |
|                  | 22°F (-5.6°C)                                      | 18455                               | 18086            | 17995            | 17923              | 17762              | 2.95                   | 2.97             | 2.98             | 2.99               | 3.00               |
|                  | 27°F (-2.8°C)                                      | 18489                               | 18120            | 18029            | 17957              | 17795              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 32°F (0.0°C)                                       | 18524                               | 18153            | 18063            | 17990              | 17828              | 2.68                   | 2.70             | 2.71             | 2.71               | 2.72               |
|                  | 35°F (1.7°C)                                       | 18544                               | 18174            | 18083            | 18010              | 17848              | 2.60                   | 2.62             | 2.63             | 2.63               | 2.64               |
|                  | 37°F (2.8°C)                                       | 19432                               | 19043            | 18948            | 18872              | 18703              | 2.63                   | 2.65             | 2.66             | 2.66               | 2.67               |
|                  | 42°F (5.6°C)                                       | 21651                               | 21218            | 21112            | 21027              | 20838              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 44.6°F (7.0°C)                                     | 22539                               | 22088            | 21977            | 21889              | 21692              | 2.74                   | 2.76             | 2.77             | 2.77               | 2.78               |
|                  | 47°F (8.3°C)                                       | 23870                               | 23393            | 23276            | 23182              | 22974              | 2.79                   | 2.81             | 2.82             | 2.82               | 2.83               |
|                  | 52°F (11.1°C)                                      | 22719                               | 22265            | 22153            | 22065              | 21866              | 2.65                   | 2.67             | 2.68             | 2.68               | 2.69               |
|                  | 57F (13.9°C)                                       | 21568                               | 21137            | 21031            | 20947              | 20759              | 2.51                   | 2.53             | 2.54             | 2.54               | 2.55               |
|                  | 59°F (15.0°C)                                      | 21108                               | 20686            | 20582            | 20500              | 20316              | 2.45                   | 2.47             | 2.48             | 2.48               | 2.49               |
|                  | 62°F (16.7°C)                                      | 20417                               | 20009            | 19909            | 19829              | 19651              | 2.37                   | 2.39             | 2.39             | 2.40               | 2.41               |
|                  | 64.4°F (18.0°C)                                    | 19865                               | 19468            | 19370            | 19293              | 19119              | 2.30                   | 2.32             | 2.33             | 2.33               | 2.34               |
| 69.8°F (21.0°C)  | 18622                                              | 18250                               | 18158            | 18086            | 17923              | 2.15               | 2.17                   | 2.18             | 2.18             | 2.19               |                    |
| 75.2°F (24.0°C)  | 17379                                              | 17032                               | 16947            | 16879            | 16727              | 2.00               | 2.02                   | 2.02             | 2.03             | 2.04               |                    |
| 706              | -22°F (-30.0°C)                                    | 14476                               | 14186            | 14115            | 14059              | 13932              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | -13°F (-25.0°C)                                    | 16379                               | 16052            | 15972            | 15908              | 15765              | 2.84                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | -4°F (-20.0°C)                                     | 19452                               | 19063            | 18967            | 18891              | 18721              | 2.91                   | 2.94             | 2.94             | 2.95               | 2.96               |
|                  | 0°F (-17.8°C)                                      | 20760                               | 20344            | 20243            | 20162              | 19980              | 2.74                   | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 5°F (-15.0°C)                                      | 22394                               | 21947            | 21837            | 21749              | 21554              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 14°F (-10.0°C)                                     | 23499                               | 23029            | 22914            | 22822              | 22617              | 2.97                   | 2.99             | 3.00             | 3.01               | 3.02               |
|                  | 17°F (-8.3°C)                                      | 23868                               | 23390            | 23273            | 23180              | 22972              | 3.12                   | 3.14             | 3.15             | 3.15               | 3.17               |
|                  | 22°F (-5.6°C)                                      | 23912                               | 23434            | 23317            | 23224              | 23015              | 2.98                   | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 27°F (-2.8°C)                                      | 23957                               | 23478            | 23360            | 23267              | 23058              | 2.84                   | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 32°F (0.0°C)                                       | 24002                               | 23522            | 23404            | 23310              | 23101              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 35°F (1.7°C)                                       | 24029                               | 23548            | 23430            | 23336              | 23126              | 2.63                   | 2.65             | 2.65             | 2.66               | 2.67               |
|                  | 37°F (2.8°C)                                       | 25179                               | 24675            | 24552            | 24453              | 24233              | 2.66                   | 2.68             | 2.68             | 2.69               | 2.70               |
|                  | 42°F (5.6°C)                                       | 28054                               | 27493            | 27355            | 27246              | 27001              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F (7.0°C)                                     | 29204                               | 28620            | 28477            | 28363              | 28107              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 30929                               | 30310            | 30159            | 30038              | 29768              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 52°F (11.1°C)                                      | 29438                               | 28849            | 28705            | 28590              | 28333              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 57F (13.9°C)                                       | 27946                               | 27388            | 27251            | 27142              | 26897              | 2.54                   | 2.56             | 2.56             | 2.57               | 2.58               |
|                  | 59°F (15.0°C)                                      | 27350                               | 26803            | 26669            | 26562              | 26323              | 2.48                   | 2.50             | 2.50             | 2.51               | 2.52               |
|                  | 62°F (16.7°C)                                      | 26455                               | 25926            | 25797            | 25693              | 25462              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 64.4°F (18.0°C)                                    | 25740                               | 25225            | 25099            | 24998              | 24773              | 2.33                   | 2.35             | 2.35             | 2.36               | 2.37               |
| 69.8°F (21.0°C)  | 24129                                              | 23647                               | 23528            | 23434            | 23223              | 2.18               | 2.19                   | 2.20             | 2.20             | 2.21               |                    |
| 75.2°F (24.0°C)  | 22519                                              | 22068                               | 21958            | 21870            | 21673              | 2.02               | 2.04                   | 2.05             | 2.05             | 2.06               |                    |

Table 10 – 37MUHA+ 45MULACooling Performance (30K - 36A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 507   | -22°F<br>30°C   | TC               | 23465            | 23457            | 23450            | 23587            | 24281            | 24498            | 24485            | 24474            | 24472            | 24455            | 25229            | 25216            | 25200            | 25197            | 25179            | 26614            | 26607            | 26587            |
| S/T            | 0.77               |       |                 | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
| PI             | 2.10               |       |                 | 2.10             | 2.10             | 2.10             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
| -13°F<br>25°C  | TC                 |       | 25421           | 25412            | 25405            | 25552            | 26304            | 26540            | 26525            | 26513            | 26511            | 26493            | 27332            | 27318            | 27300            | 27297            | 27278            | 28832            | 28824            | 28803            | 28796            | 28753            |
|                | S/T                |       | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 2.18            | 2.18             | 2.18             | 2.18             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             |
| -4°F<br>20°C   | TC                 |       | 27376           | 27366            | 27359            | 27518            | 28328            | 28581            | 28566            | 28553            | 28551            | 28531            | 29434            | 29419            | 29400            | 29396            | 29376            | 31050            | 31041            | 31018            | 31011            | 30964            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 2.26            | 2.26             | 2.26             | 2.25             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.25             |
| 0°F<br>17.8°C  | TC                 |       | 28279           | 28267            | 28376            | 28593            | 29385            | 29513            | 29490            | 29473            | 29470            | 29465            | 30378            | 30361            | 30333            | 30329            | 30302            | 32015            | 32006            | 32007            | 32011            | 32035            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 2.27            | 2.28             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             |
| 5°F<br>15°C    | TC                 |       | 29111           | 29138            | 29530            | 29666            | 30573            | 30496            | 30502            | 30505            | 30506            | 30656            | 31494            | 31491            | 31500            | 31500            | 31504            | 33375            | 33366            | 33366            | 33368            | 33387            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 2.29            | 2.29             | 2.29             | 2.29             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
| 14°F<br>10°C   | TC                 |       | 31129           | 31117            | 31246            | 31520            | 32498            | 32692            | 32673            | 32657            | 32655            | 32637            | 33821            | 33805            | 33779            | 33775            | 33746            | 35948            | 35937            | 35911            | 35903            | 35848            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.88            | 1.88             | 1.88             | 1.88             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             |
| 17°F<br>10°C   | TC                 |       | 31839           | 31847            | 32237            | 32423            | 33467            | 33437            | 33440            | 33447            | 33448            | 33606            | 34503            | 34517            | 34539            | 34541            | 34550            | 36798            | 36787            | 36791            | 36798            | 36832            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.72            | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             |
| 23°F<br>5°C    | TC                 |       | 30992           | 31035            | 31540            | 31695            | 32731            | 32582            | 32591            | 32595            | 32596            | 32789            | 33731            | 33730            | 33741            | 33742            | 33748            | 35906            | 35895            | 35896            | 35901            | 35926            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 1.77            | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.83             | 1.82             | 1.82             | 1.83             | 1.83             |
| 35°F<br>1.7°C  | TC                 |       | 29722           | 29723            | 29781            | 29814            | 30580            | 31148            | 31144            | 31145            | 31146            | 31147            | 32149            | 32147            | 32144            | 32144            | 32147            | 34011            | 34003            | 33996            | 34001            | 33995            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 1.77            | 1.77             | 1.77             | 1.77             | 1.83             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
| 41°F<br>5°C    | TC                 |       | 26099           | 26100            | 26172            | 26207            | 26951            | 27345            | 27342            | 27343            | 27343            | 27367            | 28220            | 28217            | 28215            | 28215            | 28218            | 29845            | 29838            | 29832            | 29835            | 29831            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 1.42            | 1.42             | 1.43             | 1.43             | 1.48             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             |
| 47°F<br>8.3°C  | TC                 |       | 22471           | 22472            | 22558            | 22597            | 23293            | 23541            | 23538            | 23538            | 23538            | 23574            | 24290            | 24288            | 24286            | 24286            | 24288            | 25684            | 25678            | 25676            | 25675            | 25671            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 1.08            | 1.08             | 1.09             | 1.09             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.16             | 1.21             | 1.21             | 1.21             | 1.21             | 1.21             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             |
| 50°F<br>10°C   | TC                 |       | 22124           | 22486            | 23237            | 23370            | 24265            | 23424            | 23438            | 23514            | 23544            | 24294            | 24347            | 24378            | 24392            | 24394            | 24504            | 26100            | 26113            | 26177            | 26184            | 26218            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 1.25            | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             |
| 59°F<br>15°C   | TC                 |       | 22327           | 22865            | 23670            | 23812            | 24770            | 23690            | 23700            | 23818            | 23864            | 24799            | 24674            | 24700            | 24710            | 24711            | 24874            | 26558            | 26565            | 26617            | 26623            | 26649            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 1.37            | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
| 68°F<br>20°C   | TC                 |       | 22549           | 23276            | 24132            | 24285            | 25306            | 23958            | 23965            | 24153            | 24311            | 25334            | 25000            | 25021            | 25028            | 25029            | 25314            | 26995            | 27004            | 27047            | 27052            | 27072            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 1.49            | 1.49             | 1.50             | 1.50             | 1.51             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
| 77°F<br>25°C   | TC                 |       | 22723           | 23594            | 24509            | 24671            | 25762            | 24201            | 24212            | 24490            | 24700            | 25792            | 25305            | 25334            | 25346            | 25375            | 25815            | 27407            | 27432            | 27493            | 27500            | 27530            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 1.62            | 1.62             | 1.63             | 1.63             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.66             | 1.66             | 1.66             | 1.65             | 1.65             |
| 82°F<br>27.8°C | TC                 |       | 22933           | 23905            | 24858            | 25027            | 26165            | 24446            | 24486            | 24888            | 25057            | 26195            | 25590            | 25624            | 25637            | 25677            | 26219            | 27757            | 27793            | 27862            | 27870            | 27903            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 1.81            | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             |
| 86°F<br>30°C   | TC                 |       | 23227           | 24303            | 25289            | 25463            | 26650            | 24761            | 24813            | 25320            | 25494            | 26671            | 25943            | 25973            | 26014            | 26038            | 26696            | 28172            | 28213            | 28279            | 28286            | 28316            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 2.12            | 2.14             | 2.15             | 2.15             | 2.16             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.18             | 2.18             | 2.18             | 2.18             |                  |

Table 10 – 37MUHA+ 45MULACooling Performance (30K - 36A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 676            | -22°F<br>30°C      | TC    | 30425            | 30411            | 30845            | 30973            | 31825            | 31744            | 31718            | 31698            | 31695            | 31668            | 32693            | 32652            | 32621            | 32616            | 32585            | 34485            | 34475            | 34405            | 34392            | 34319            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.69             | 2.69             | 2.68             | 2.68             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.68             | 2.68             | 2.68             | 2.69             | 2.69             |
|                | -13°F<br>25°C      | TC    | 32960            | 32945            | 33415            | 33554            | 34477            | 34389            | 34361            | 34339            | 34336            | 34307            | 35417            | 35373            | 35339            | 35334            | 35301            | 37358            | 37348            | 37272            | 37258            | 37179            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.78             | 2.79             | 2.78             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|                | -4°F<br>20°C       | TC    | 35496            | 35479            | 35985            | 36135            | 37129            | 37034            | 37004            | 36981            | 36977            | 36946            | 38142            | 38094            | 38058            | 38052            | 38016            | 40232            | 40221            | 40139            | 40124            | 40039            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.88             | 2.89             | 2.88             | 2.88             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 2.86             | 2.87             | 2.87             | 2.87             | 2.87             | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             |
|                | 0°F<br>17.8°C      | TC    | 36674            | 36652            | 37332            | 37488            | 38517            | 38247            | 38204            | 38175            | 38170            | 38554            | 39371            | 39315            | 39266            | 39260            | 39241            | 41488            | 41478            | 41475            | 41480            | 41507            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.90             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             |
|                | 5°F<br>15°C        | TC    | 37725            | 37855            | 38720            | 38899            | 40098            | 39494            | 39504            | 39507            | 39548            | 40137            | 40757            | 40768            | 40776            | 40777            | 40831            | 43148            | 43135            | 43157            | 43162            | 43181            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.93             | 2.93             | 2.94             | 2.94             | 2.95             | 2.94             | 2.95             | 2.95             | 2.95             | 2.96             | 2.96             | 2.97             | 2.97             | 2.97             | 2.97             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                | 14°F<br>10°C       | TC    | 40370            | 40350            | 41174            | 41367            | 42650            | 42375            | 42337            | 42309            | 42304            | 42700            | 43827            | 43772            | 43727            | 43720            | 43676            | 46602            | 46587            | 46498            | 46482            | 46383            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.40             | 2.40             | 2.40             | 2.40             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                | 17°F<br>10°C       | TC    | 41153            | 41288            | 42242            | 42448            | 43826            | 43202            | 43220            | 43228            | 43264            | 43874            | 44676            | 44693            | 44711            | 44713            | 44768            | 47514            | 47501            | 47494            | 47503            | 47543            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             |
|                | 23°F<br>5°C        | TC    | 40162            | 40335            | 41378            | 41582            | 42953            | 42196            | 42208            | 42213            | 42268            | 42999            | 43651            | 43666            | 43677            | 43678            | 43749            | 46414            | 46400            | 46433            | 46439            | 46466            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.27             | 2.27             | 2.28             | 2.28             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.34             | 2.34             | 2.34             | 2.34             | 2.35             |
|                | 35°F<br>1.7°C      | TC    | 38546            | 38547            | 38774            | 38882            | 40136            | 40348            | 40346            | 40350            | 40350            | 40457            | 41611            | 41608            | 41610            | 41611            | 41615            | 43954            | 43943            | 43941            | 43939            | 43943            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.26             | 2.26             | 2.28             | 2.28             | 2.38             | 2.40             | 2.40             | 2.40             | 2.40             | 2.41             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             |
|                | 41°F<br>5°C        | TC    | 33845            | 33846            | 34115            | 34352            | 35368            | 35420            | 35419            | 35421            | 35421            | 35545            | 36524            | 36522            | 36524            | 36525            | 36527            | 38574            | 38564            | 38562            | 38560            | 38564            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.82             | 1.82             | 1.84             | 1.86             | 1.93             | 1.94             | 1.94             | 1.94             | 1.94             | 1.95             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.21             | 2.21             | 2.20             | 2.20             | 2.21             |
|                | 47°F<br>8.3°C      | TC    | 29141            | 29160            | 29551            | 29683            | 30561            | 30492            | 30491            | 30492            | 30491            | 30632            | 31439            | 31436            | 31438            | 31438            | 31438            | 33199            | 33191            | 33188            | 33186            | 33190            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.39             | 1.39             | 1.42             | 1.42             | 1.49             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             |
|                | 50°F<br>10°C       | TC    | 28713            | 29504            | 30500            | 30676            | 31866            | 30334            | 30351            | 30561            | 30657            | 31896            | 31518            | 31559            | 31575            | 31577            | 31881            | 33690            | 33779            | 33866            | 33876            | 33919            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 59°F<br>15°C       | TC    | 28995            | 30012            | 31078            | 31267            | 32539            | 30678            | 30720            | 31069            | 31300            | 32571            | 31944            | 31976            | 31987            | 32034            | 32598            | 34301            | 34370            | 34438            | 34446            | 34475            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             |
|                | 68°F<br>20°C       | TC    | 29261            | 30510            | 31641            | 31843            | 33194            | 30977            | 31047            | 31676            | 31877            | 33227            | 32317            | 32341            | 32399            | 32427            | 33254            | 34821            | 34886            | 34941            | 34946            | 34964            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.91             | 1.92             | 1.93             | 1.93             | 1.94             | 1.92             | 1.92             | 1.93             | 1.93             | 1.94             | 1.94             | 1.93             | 1.93             | 1.93             | 1.94             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                | 77°F<br>25°C       | TC    | 29500            | 30921            | 32131            | 32345            | 33790            | 31274            | 31373            | 32166            | 32381            | 33824            | 32690            | 32727            | 32811            | 32847            | 33852            | 35307            | 35414            | 35496            | 35505            | 35538            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.07             | 2.09             | 2.09             | 2.10             | 2.11             | 2.09             | 2.09             | 2.09             | 2.10             | 2.11             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             |
|                | 82°F<br>27.8°C     | TC    | 29795            | 31317            | 32580            | 32800            | 34303            | 31574            | 31696            | 32608            | 32837            | 34339            | 33043            | 33084            | 33187            | 33228            | 34369            | 35726            | 35860            | 35954            | 35963            | 36003            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.33             | 2.34             | 2.35             | 2.35             | 2.36             | 2.34             | 2.34             | 2.35             | 2.35             | 2.36             | 2.35             | 2.35             | 2.35             | 2.35             | 2.36             | 2.38             | 2.38             | 2.38             | 2.38             | 2.37             |
|                | 86°F<br>30°C       | TC    | 30341            | 31856            | 33159            | 33390            | 34945            | 31997            | 32144            | 33195            | 33428            | 34981            | 33513            | 33552            | 33675            | 33724            | 35011            | 36282            | 36422            | 36509            | 36518            | 36552            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.73             | 2.74             | 2.76             | 2.76             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 11 – 37MUHA+ 45MULAH Heating Performance (30K - 36A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 507              | -22°F (-30.0°C)                                    | 16174                               | 15851            | 15771            | 15708              | 15567              | 3.78                   | 3.81             | 3.82             | 3.82               | 3.84               |
|                  | -13°F (-25.0°C)                                    | 18856                               | 18479            | 18387            | 18313              | 18148              | 4.11                   | 4.14             | 4.15             | 4.16               | 4.18               |
|                  | -4°F (-20.0°C)                                     | 22688                               | 22234            | 22123            | 22035              | 21836              | 4.46                   | 4.50             | 4.51             | 4.52               | 4.54               |
|                  | 0°F (-17.8°C)                                      | 23679                               | 23205            | 23089            | 22997              | 22790              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 24917                               | 24419            | 24297            | 24199              | 23982              | 4.79                   | 4.83             | 4.84             | 4.85               | 4.87               |
|                  | 14°F (-10.0°C)                                     | 25070                               | 24568            | 24446            | 24348              | 24129              | 4.54                   | 4.58             | 4.59             | 4.60               | 4.62               |
|                  | 17°F (-8.3°C)                                      | 25121                               | 24618            | 24495            | 24397              | 24178              | 4.46                   | 4.49             | 4.50             | 4.51               | 4.53               |
|                  | 22°F (-5.6°C)                                      | 25664                               | 25151            | 25025            | 24925              | 24701              | 4.30                   | 4.33             | 4.34             | 4.35               | 4.36               |
|                  | 27°F (-2.8°C)                                      | 26207                               | 25683            | 25555            | 25453              | 25224              | 4.13                   | 4.17             | 4.17             | 4.18               | 4.20               |
|                  | 32°F (0.0°C)                                       | 26751                               | 26216            | 26085            | 25980              | 25746              | 3.97                   | 4.00             | 4.01             | 4.02               | 4.03               |
|                  | 35°F (1.7°C)                                       | 27077                               | 26535            | 26403            | 26297              | 26060              | 3.87                   | 3.90             | 3.91             | 3.92               | 3.94               |
|                  | 37°F (2.8°C)                                       | 27303                               | 26757            | 26623            | 26516              | 26278              | 3.81                   | 3.85             | 3.85             | 3.86               | 3.88               |
|                  | 42°F (5.6°C)                                       | 27867                               | 27310            | 27174            | 27065              | 26821              | 3.67                   | 3.70             | 3.70             | 3.71               | 3.73               |
|                  | 44.6°F (7.0°C)                                     | 28093                               | 27532            | 27394            | 27284              | 27039              | 3.61                   | 3.64             | 3.64             | 3.65               | 3.67               |
|                  | 47°F (8.3°C)                                       | 28432                               | 27864            | 27724            | 27613              | 27365              | 3.52                   | 3.55             | 3.55             | 3.56               | 3.58               |
|                  | 52°F (11.1°C)                                      | 27806                               | 27250            | 27113            | 27005              | 26762              | 3.20                   | 3.23             | 3.24             | 3.24               | 3.26               |
|                  | 57°F (13.9°C)                                      | 27179                               | 26636            | 26503            | 26397              | 26159              | 2.89                   | 2.91             | 2.92             | 2.92               | 2.93               |
|                  | 59°F (15.0°C)                                      | 26929                               | 26390            | 26258            | 26153              | 25918              | 2.76                   | 2.78             | 2.79             | 2.80               | 2.81               |
|                  | 62°F (16.7°C)                                      | 26553                               | 26022            | 25892            | 25788              | 25556              | 2.57                   | 2.59             | 2.60             | 2.60               | 2.61               |
|                  | 64.4°F (18.0°C)                                    | 26252                               | 25727            | 25599            | 25496              | 25267              | 2.42                   | 2.44             | 2.45             | 2.45               | 2.46               |
|                  | 69.8°F (21.0°C)                                    | 26346                               | 25819            | 25690            | 25588              | 25357              | 2.08                   | 2.10             | 2.10             | 2.11               | 2.11               |
|                  | 75.2°F (24.0°C)                                    | 25813                               | 25297            | 25170            | 25069              | 24844              | 1.74                   | 1.75             | 1.76             | 1.76               | 1.77               |
| 676              | -22°F (-30.0°C)                                    | 20937                               | 20519            | 20416            | 20334              | 20151              | 3.82                   | 3.85             | 3.85             | 3.86               | 3.88               |
|                  | -13°F (-25.0°C)                                    | 24409                               | 23921            | 23801            | 23706              | 23493              | 4.15                   | 4.19             | 4.19             | 4.20               | 4.22               |
|                  | -4°F (-20.0°C)                                     | 29370                               | 28782            | 28638            | 28524              | 28267              | 4.51                   | 4.55             | 4.56             | 4.56               | 4.58               |
|                  | 0°F (-17.8°C)                                      | 30652                               | 30039            | 29889            | 29769              | 29501              | 4.66                   | 4.70             | 4.71             | 4.71               | 4.73               |
|                  | 5°F (-15.0°C)                                      | 32255                               | 31610            | 31452            | 31326              | 31044              | 4.84                   | 4.88             | 4.89             | 4.90               | 4.92               |
|                  | 14°F (-10.0°C)                                     | 32453                               | 31804            | 31645            | 31518              | 31235              | 4.59                   | 4.62             | 4.63             | 4.64               | 4.66               |
|                  | 17°F (-8.3°C)                                      | 32519                               | 31868            | 31709            | 31582              | 31298              | 4.50                   | 4.54             | 4.55             | 4.56               | 4.58               |
|                  | 22°F (-5.6°C)                                      | 33222                               | 32558            | 32395            | 32265              | 31975              | 4.34                   | 4.37             | 4.38             | 4.39               | 4.41               |
|                  | 27°F (-2.8°C)                                      | 33925                               | 33247            | 33081            | 32948              | 32652              | 4.17                   | 4.21             | 4.22             | 4.23               | 4.24               |
|                  | 32°F (0.0°C)                                       | 34629                               | 33936            | 33767            | 33631              | 33329              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.08               |
|                  | 35°F (1.7°C)                                       | 35051                               | 34350            | 34178            | 34041              | 33735              | 3.91                   | 3.94             | 3.95             | 3.96               | 3.98               |
|                  | 37°F (2.8°C)                                       | 35343                               | 34636            | 34463            | 34325              | 34016              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | 42°F (5.6°C)                                       | 36074                               | 35353            | 35176            | 35035              | 34720              | 3.70                   | 3.73             | 3.74             | 3.75               | 3.76               |
|                  | 44.6°F (7.0°C)                                     | 36367                               | 35640            | 35461            | 35319              | 35002              | 3.64                   | 3.67             | 3.68             | 3.69               | 3.70               |
|                  | 47°F (8.3°C)                                       | 36806                               | 36069            | 35889            | 35746              | 35424              | 3.55                   | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 52°F (11.1°C)                                      | 35995                               | 35275            | 35098            | 34958              | 34643              | 3.24                   | 3.26             | 3.27             | 3.27               | 3.29               |
|                  | 57°F (13.9°C)                                      | 35184                               | 34480            | 34308            | 34170              | 33863              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
|                  | 59°F (15.0°C)                                      | 34859                               | 34162            | 33991            | 33855              | 33551              | 2.79                   | 2.81             | 2.82             | 2.82               | 2.83               |
|                  | 62°F (16.7°C)                                      | 34373                               | 33685            | 33517            | 33383              | 33082              | 2.60                   | 2.62             | 2.63             | 2.63               | 2.64               |
|                  | 64.4°F (18.0°C)                                    | 33984                               | 33304            | 33137            | 33005              | 32708              | 2.45                   | 2.47             | 2.47             | 2.48               | 2.49               |
|                  | 69.8°F (21.0°C)                                    | 34105                               | 33423            | 33256            | 33123              | 32825              | 2.10                   | 2.12             | 2.12             | 2.13               | 2.14               |
|                  | 75.2°F (24.0°C)                                    | 33415                               | 32746            | 32583            | 32452              | 32160              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |

Table 12 – 37MUHA+ 45MULACooling Performance (30K - 36B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 618   | -22°F<br>30°C   | TC               | 23301            | 23292            | 23286            | 23421            | 24111            | 24326            | 24313            | 24302            | 24300            | 24284            | 25053            | 25040            | 25023            | 25020            | 25003            | 26427            | 26420            | 26401            |
| S/T            | 0.77               |       |                 | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
| PI             | 3.02               |       |                 | 3.02             | 3.02             | 3.02             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |
| -13°F<br>25°C  | TC                 |       | 25242           | 25233            | 25226            | 25373            | 26120            | 26354            | 26339            | 26327            | 26325            | 26307            | 27140            | 27126            | 27108            | 27105            | 27086            | 28630            | 28622            | 28601            | 28594            | 28551            |
|                | S/T                |       | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 3.13            | 3.13             | 3.13             | 3.13             | 3.11             | 3.11             | 3.11             | 3.11             | 3.11             | 3.11             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.11             | 3.11             | 3.11             | 3.11             | 3.12             |
| -4°F<br>20°C   | TC                 |       | 27184           | 27175            | 27167            | 27325            | 28129            | 28381            | 28365            | 28353            | 28350            | 28331            | 29228            | 29213            | 29193            | 29190            | 29170            | 30832            | 30824            | 30801            | 30793            | 30747            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 3.24            | 3.24             | 3.24             | 3.24             | 3.23             | 3.22             | 3.22             | 3.22             | 3.22             | 3.22             | 3.21             | 3.21             | 3.21             | 3.21             | 3.22             | 3.22             | 3.22             | 3.23             | 3.23             | 3.23             |
| 0°F<br>17.8°C  | TC                 |       | 28081           | 28069            | 28177            | 28392            | 29179            | 29306            | 29283            | 29267            | 29264            | 29259            | 30165            | 30148            | 30120            | 30116            | 30089            | 31791            | 31781            | 31783            | 31786            | 31810            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 3.27            | 3.27             | 3.27             | 3.27             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             |
| 5°F<br>15°C    | TC                 |       | 28907           | 28933            | 29323            | 29458            | 30358            | 30282            | 30288            | 30291            | 30292            | 30441            | 31273            | 31270            | 31279            | 31279            | 31283            | 33141            | 33132            | 33132            | 33134            | 33153            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 3.30            | 3.30             | 3.30             | 3.30             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.32             | 3.33             | 3.33             | 3.33             | 3.39             | 3.39             | 3.39             | 3.39             | 3.39             |
| 14°F<br>10°C   | TC                 |       | 32920           | 32908            | 33044            | 33333            | 34367            | 34572            | 34553            | 34536            | 34533            | 34515            | 35767            | 35750            | 35723            | 35718            | 35688            | 38016            | 38005            | 37977            | 37968            | 37910            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 2.41            | 2.41             | 2.41             | 2.41             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
| 17°F<br>10°C   | TC                 |       | 34295           | 34304            | 34724            | 34924            | 36049            | 36017            | 36020            | 36028            | 36029            | 36199            | 37165            | 37180            | 37204            | 37206            | 37215            | 39638            | 39625            | 39629            | 39637            | 39674            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 2.09            | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             |
| 23°F<br>5°C    | TC                 |       | 33805           | 33852            | 34403            | 34571            | 35701            | 35540            | 35549            | 35554            | 35554            | 35765            | 36793            | 36792            | 36803            | 36805            | 36811            | 39165            | 39153            | 39155            | 39160            | 39187            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 2.13            | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             |
| 35°F<br>1.7°C  | TC                 |       | 33290           | 33291            | 33355            | 33393            | 34251            | 34887            | 34882            | 34884            | 34885            | 34885            | 36008            | 36006            | 36002            | 36002            | 36006            | 38094            | 38085            | 38077            | 38082            | 38075            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 2.08            | 2.08             | 2.09             | 2.09             | 2.15             | 2.21             | 2.20             | 2.21             | 2.21             | 2.21             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
| 41°F<br>5°C    | TC                 |       | 33125           | 33126            | 33218            | 33262            | 34207            | 34707            | 34703            | 34704            | 34704            | 34735            | 35817            | 35813            | 35810            | 35811            | 35815            | 37879            | 37870            | 37862            | 37866            | 37861            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 2.01            | 2.01             | 2.02             | 2.03             | 2.10             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             |
| 47°F<br>8.3°C  | TC                 |       | 32958           | 32958            | 33085            | 33142            | 34162            | 34526            | 34521            | 34522            | 34522            | 34574            | 35625            | 35622            | 35619            | 35619            | 35621            | 37670            | 37660            | 37657            | 37656            | 37651            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 1.95            | 1.95             | 1.96             | 1.96             | 2.04             | 2.08             | 2.07             | 2.07             | 2.08             | 2.08             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             |
| 50°F<br>10°C   | TC                 |       | 31581           | 32097            | 33169            | 33359            | 34637            | 33436            | 33456            | 33565            | 33608            | 34677            | 34753            | 34798            | 34818            | 34820            | 34977            | 37257            | 37275            | 37365            | 37375            | 37425            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 2.14            | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             |
| 59°F<br>15°C   | TC                 |       | 29290           | 29995            | 31050            | 31237            | 32494            | 31077            | 31091            | 31245            | 31305            | 32532            | 32368            | 32402            | 32415            | 32417            | 32631            | 34839            | 34849            | 34917            | 34925            | 34959            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 2.01            | 2.01             | 2.02             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
| 68°F<br>20°C   | TC                 |       | 27039           | 27912            | 28939            | 29121            | 30346            | 28729            | 28738            | 28963            | 29152            | 30379            | 29980            | 30004            | 30013            | 30014            | 30355            | 32372            | 32382            | 32434            | 32440            | 32463            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 1.89            | 1.90             | 1.91             | 1.91             | 1.92             | 1.91             | 1.91             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
| 77°F<br>25°C   | TC                 |       | 24753           | 25701            | 26698            | 26875            | 28063            | 26362            | 26375            | 26678            | 26907            | 28096            | 27566            | 27597            | 27610            | 27642            | 28121            | 29855            | 29882            | 29949            | 29956            | 29989            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 1.79            | 1.79             | 1.80             | 1.80             | 1.81             | 1.80             | 1.80             | 1.80             | 1.80             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
| 82°F<br>27.8°C | TC                 |       | 24263           | 25292            | 26300            | 26479            | 27683            | 25865            | 25907            | 26332            | 26511            | 27715            | 27075            | 27111            | 27125            | 27167            | 27740            | 29368            | 29405            | 29479            | 29487            | 29522            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 1.90            | 1.91             | 1.91             | 1.92             | 1.92             | 1.91             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
| 86°F<br>30°C   | TC                 |       | 24829           | 25979            | 27033            | 27219            | 28488            | 26468            | 26523            | 27065            | 27252            | 28510            | 27731            | 27764            | 27807            | 27833            | 28537            | 30115            | 30158            | 30229            | 30236            | 30268            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 2.20            | 2.21             | 2.22             | 2.22             | 2.24             | 2.21             | 2.21             | 2.22             | 2.22             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.25             | 2.25             | 2.25             | 2.25             |                  |

Table 12 – 37MUHA+ 45MULACooling Performance (30K - 36B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 824            | -22°F<br>30°C      | TC    | 30211            | 30198            | 30628            | 30755            | 31602            | 31521            | 31495            | 31475            | 31472            | 31446            | 32464            | 32423            | 32392            | 32388            | 32357            | 34243            | 34234            | 34163            | 34151            | 34078            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 3.86             | 3.86             | 3.85             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.83             | 3.83             | 3.84             | 3.84             | 3.84             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             |
|                | -13°F<br>25°C      | TC    | 32729            | 32714            | 33181            | 33318            | 34235            | 34148            | 34120            | 34098            | 34095            | 34067            | 35169            | 35125            | 35092            | 35087            | 35053            | 37097            | 37086            | 37010            | 36996            | 36918            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 4.00             | 4.00             | 4.00             | 3.99             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.99             | 3.97             | 3.98             | 3.98             | 3.98             | 3.98             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |
|                | -4°F<br>20°C       | TC    | 35247            | 35231            | 35733            | 35881            | 36869            | 36775            | 36744            | 36721            | 36718            | 36687            | 37874            | 37827            | 37791            | 37786            | 37749            | 39950            | 39939            | 39857            | 39842            | 39758            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 4.15             | 4.15             | 4.14             | 4.14             | 4.13             | 4.12             | 4.12             | 4.13             | 4.13             | 4.13             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             | 4.14             | 4.14             | 4.14             | 4.14             | 4.15             |
|                | 0°F<br>17.8°C      | TC    | 36416            | 36395            | 37070            | 37225            | 38247            | 37978            | 37936            | 37907            | 37902            | 38284            | 39095            | 39039            | 38991            | 38985            | 38966            | 41197            | 41187            | 41184            | 41190            | 41216            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.17             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.19             | 4.23             | 4.23             | 4.23             | 4.23             | 4.23             |
|                | 5°F<br>15°C        | TC    | 37461            | 37589            | 38449            | 38626            | 39816            | 39217            | 39227            | 39230            | 39270            | 39856            | 40471            | 40482            | 40490            | 40491            | 40545            | 42845            | 42832            | 42855            | 42859            | 42878            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 4.21             | 4.21             | 4.22             | 4.22             | 4.25             | 4.23             | 4.23             | 4.23             | 4.23             | 4.25             | 4.26             | 4.26             | 4.26             | 4.26             | 4.27             | 4.35             | 4.35             | 4.36             | 4.36             | 4.36             |
|                | 14°F<br>10°C       | TC    | 42693            | 42672            | 43543            | 43747            | 45103            | 44813            | 44773            | 44743            | 44738            | 45157            | 46348            | 46290            | 46243            | 46236            | 46189            | 49283            | 49267            | 49173            | 49156            | 49051            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 3.08             | 3.08             | 3.08             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |
|                | 17°F<br>10°C       | TC    | 44328            | 44473            | 45501            | 45723            | 47208            | 46535            | 46554            | 46563            | 46602            | 47259            | 48123            | 48141            | 48160            | 48163            | 48222            | 51180            | 51166            | 51158            | 51168            | 51211            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             |
|                | 23°F<br>5°C        | TC    | 43807            | 43996            | 45134            | 45357            | 46851            | 46026            | 46040            | 46045            | 46105            | 46902            | 47613            | 47629            | 47642            | 47643            | 47720            | 50627            | 50611            | 50647            | 50654            | 50683            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.72             | 2.73             | 2.73             | 2.74             | 2.75             | 2.74             | 2.74             | 2.74             | 2.74             | 2.75             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.81             | 2.81             | 2.82             | 2.82             | 2.82             |
|                | 35°F<br>1.7°C      | TC    | 43173            | 43174            | 43428            | 43549            | 44954            | 45191            | 45189            | 45193            | 45193            | 45313            | 46605            | 46602            | 46605            | 46606            | 46610            | 49230            | 49218            | 49215            | 49213            | 49217            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.67             | 2.67             | 2.68             | 2.69             | 2.81             | 2.83             | 2.83             | 2.83             | 2.83             | 2.84             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 3.21             | 3.21             | 3.21             | 3.20             | 3.21             |
|                | 41°F<br>5°C        | TC    | 42957            | 42957            | 43299            | 43600            | 44889            | 44955            | 44953            | 44956            | 44956            | 45114            | 46357            | 46354            | 46356            | 46357            | 46360            | 48958            | 48946            | 48943            | 48941            | 48946            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.58             | 2.58             | 2.60             | 2.63             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.76             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
|                | 47°F<br>8.3°C      | TC    | 42739            | 42767            | 43341            | 43534            | 44822            | 44721            | 44719            | 44720            | 44719            | 44927            | 46109            | 46105            | 46108            | 46108            | 46108            | 48691            | 48679            | 48674            | 48672            | 48677            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.50             | 2.50             | 2.54             | 2.56             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             | 2.68             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.04             | 3.03             | 3.03             | 3.03             | 3.03             |
|                | 50°F<br>10°C       | TC    | 40986            | 42115            | 43536            | 43788            | 45486            | 43300            | 43324            | 43624            | 43761            | 45529            | 44989            | 45048            | 45072            | 45074            | 45508            | 48091            | 48217            | 48342            | 48356            | 48417            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.73             | 2.73             | 2.73             | 2.73             |
|                | 59°F<br>15°C       | TC    | 38037            | 39371            | 40768            | 41017            | 42686            | 40245            | 40299            | 40757            | 41060            | 42728            | 41905            | 41947            | 41962            | 42023            | 42763            | 44997            | 45087            | 45177            | 45187            | 45225            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.58             | 2.59             | 2.59             | 2.59             | 2.60             | 2.59             | 2.59             | 2.59             | 2.59             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.62             | 2.62             | 2.61             | 2.61             | 2.61             |
|                | 68°F<br>20°C       | TC    | 35088            | 36586            | 37943            | 38184            | 39804            | 37147            | 37230            | 37984            | 38226            | 39844            | 38753            | 38782            | 38851            | 38886            | 39877            | 41756            | 41834            | 41899            | 41906            | 41928            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.42             | 2.44             | 2.45             | 2.45             | 2.47             | 2.44             | 2.44             | 2.45             | 2.45             | 2.47             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
|                | 77°F<br>25°C       | TC    | 32135            | 33682            | 35001            | 35234            | 36808            | 34067            | 34176            | 35039            | 35273            | 36845            | 35610            | 35650            | 35741            | 35781            | 36876            | 38461            | 38577            | 38667            | 38676            | 38712            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.29             | 2.30             | 2.31             | 2.32             | 2.33             | 2.31             | 2.31             | 2.31             | 2.32             | 2.33             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.35             | 2.35             | 2.34             | 2.34             | 2.34             |
|                | 82°F<br>27.8°C     | TC    | 31524            | 33133            | 34470            | 34703            | 36293            | 33406            | 33535            | 34500            | 34742            | 36331            | 34960            | 35004            | 35113            | 35156            | 36363            | 37799            | 37941            | 38040            | 38050            | 38091            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.43             | 2.45             | 2.46             | 2.46             | 2.47             | 2.45             | 2.45             | 2.46             | 2.46             | 2.47             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.48             |
|                | 86°F<br>30°C       | TC    | 32433            | 34052            | 35445            | 35692            | 37354            | 34203            | 34361            | 35484            | 35733            | 37393            | 35824            | 35865            | 35997            | 36049            | 37425            | 38784            | 38933            | 39026            | 39035            | 39072            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.82             | 2.83             | 2.85             | 2.85             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 13 – 37MUHA+ 45MULA Heating Performance (30K - 36B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 618              | -22°F (-30.0°C)                                    | 17532                               | 17182            | 17096            | 17027              | 16874              | 3.89                   | 3.92             | 3.93             | 3.94               | 3.95               |
|                  | -13°F (-25.0°C)                                    | 20000                               | 19600            | 19502            | 19424              | 19249              | 4.14                   | 4.17             | 4.18             | 4.19               | 4.20               |
|                  | -4°F (-20.0°C)                                     | 22941                               | 22482            | 22370            | 22280              | 22080              | 4.46                   | 4.50             | 4.51             | 4.52               | 4.54               |
|                  | 0°F (-17.8°C)                                      | 24815                               | 24319            | 24197            | 24100              | 23884              | 4.76                   | 4.79             | 4.80             | 4.81               | 4.83               |
|                  | 5°F (-15.0°C)                                      | 27158                               | 26615            | 26482            | 26376              | 26138              | 5.12                   | 5.16             | 5.17             | 5.18               | 5.20               |
|                  | 14°F (-10.0°C)                                     | 30446                               | 29837            | 29688            | 29569              | 29303              | 4.94                   | 4.98             | 4.99             | 5.00               | 5.02               |
|                  | 17°F (-8.3°C)                                      | 31542                               | 30911            | 30757            | 30634              | 30358              | 4.88                   | 4.92             | 4.93             | 4.94               | 4.96               |
|                  | 22°F (-5.6°C)                                      | 30450                               | 29841            | 29692            | 29573              | 29307              | 4.53                   | 4.57             | 4.58             | 4.59               | 4.61               |
|                  | 27°F (-2.8°C)                                      | 29357                               | 28770            | 28626            | 28512              | 28255              | 4.19                   | 4.22             | 4.23             | 4.24               | 4.26               |
|                  | 32°F (0.0°C)                                       | 28265                               | 27699            | 27561            | 27451              | 27204              | 3.84                   | 3.87             | 3.88             | 3.89               | 3.90               |
|                  | 35°F (1.7°C)                                       | 27609                               | 27057            | 26922            | 26814              | 26573              | 3.63                   | 3.66             | 3.67             | 3.68               | 3.69               |
|                  | 37°F (2.8°C)                                       | 28306                               | 27740            | 27601            | 27491              | 27244              | 3.60                   | 3.63             | 3.63             | 3.64               | 3.66               |
|                  | 42°F (5.6°C)                                       | 30049                               | 29448            | 29300            | 29183              | 28920              | 3.51                   | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 44.6°F (7.0°C)                                     | 30745                               | 30131            | 29980            | 29860              | 29591              | 3.47                   | 3.50             | 3.50             | 3.51               | 3.52               |
|                  | 47°F (8.3°C)                                       | 31791                               | 31155            | 30999            | 30875              | 30597              | 3.41                   | 3.44             | 3.45             | 3.45               | 3.47               |
|                  | 52°F (11.1°C)                                      | 31178                               | 30554            | 30402            | 30280              | 30008              | 3.12                   | 3.15             | 3.15             | 3.16               | 3.17               |
|                  | 57F (13.9°C)                                       | 30565                               | 29954            | 29804            | 29685              | 29418              | 2.83                   | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 59°F (15.0°C)                                      | 30320                               | 29714            | 29565            | 29447              | 29182              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 62°F (16.7°C)                                      | 29952                               | 29353            | 29207            | 29090              | 28828              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.58               |
|                  | 64.4°F (18.0°C)                                    | 29658                               | 29065            | 28920            | 28804              | 28545              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
| 69.8°F (21.0°C)  | 29328                                              | 28742                               | 28598            | 28484            | 28227              | 2.08               | 2.09                   | 2.10             | 2.10             | 2.11               |                    |
| 75.2°F (24.0°C)  | 25812                                              | 25295                               | 25169            | 25068            | 24843              | 1.76               | 1.77                   | 1.78             | 1.78             | 1.79               |                    |
| 824              | -22°F (-30.0°C)                                    | 22695                               | 22241            | 22130            | 22042              | 21843              | 3.93                   | 3.96             | 3.97             | 3.97               | 3.99               |
|                  | -13°F (-25.0°C)                                    | 25890                               | 25372            | 25245            | 25144              | 24918              | 4.18                   | 4.21             | 4.22             | 4.23               | 4.24               |
|                  | -4°F (-20.0°C)                                     | 29697                               | 29103            | 28958            | 28842              | 28582              | 4.51                   | 4.55             | 4.56             | 4.56               | 4.58               |
|                  | 0°F (-17.8°C)                                      | 32123                               | 31481            | 31323            | 31198              | 30917              | 4.80                   | 4.84             | 4.85             | 4.86               | 4.88               |
|                  | 5°F (-15.0°C)                                      | 35156                               | 34453            | 34280            | 34143              | 33836              | 5.17                   | 5.21             | 5.22             | 5.23               | 5.25               |
|                  | 14°F (-10.0°C)                                     | 39412                               | 38624            | 38431            | 38277              | 37933              | 4.99                   | 5.03             | 5.04             | 5.05               | 5.07               |
|                  | 17°F (-8.3°C)                                      | 40831                               | 40015            | 39815            | 39655              | 39298              | 4.93                   | 4.97             | 4.98             | 4.99               | 5.01               |
|                  | 22°F (-5.6°C)                                      | 39417                               | 38629            | 38436            | 38282              | 37937              | 4.58                   | 4.62             | 4.63             | 4.64               | 4.65               |
|                  | 27°F (-2.8°C)                                      | 38003                               | 37243            | 37057            | 36908              | 36576              | 4.23                   | 4.26             | 4.27             | 4.28               | 4.30               |
|                  | 32°F (0.0°C)                                       | 36589                               | 35857            | 35678            | 35535              | 35215              | 3.88                   | 3.91             | 3.92             | 3.93               | 3.94               |
|                  | 35°F (1.7°C)                                       | 35740                               | 35025            | 34850            | 34711              | 34398              | 3.67                   | 3.70             | 3.71             | 3.72               | 3.73               |
|                  | 37°F (2.8°C)                                       | 36642                               | 35909            | 35730            | 35587              | 35267              | 3.63                   | 3.66             | 3.67             | 3.68               | 3.69               |
|                  | 42°F (5.6°C)                                       | 38898                               | 38120            | 37929            | 37777              | 37437              | 3.54                   | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 44.6°F (7.0°C)                                     | 39800                               | 39004            | 38809            | 38654              | 38306              | 3.50                   | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 47°F (8.3°C)                                       | 41153                               | 40330            | 40129            | 39968              | 39608              | 3.45                   | 3.48             | 3.48             | 3.49               | 3.50               |
|                  | 52°F (11.1°C)                                      | 40360                               | 39553            | 39355            | 39198              | 38845              | 3.15                   | 3.18             | 3.18             | 3.19               | 3.20               |
|                  | 57F (13.9°C)                                       | 39567                               | 38775            | 38581            | 38427              | 38081              | 2.86                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | 59°F (15.0°C)                                      | 39249                               | 38464            | 38272            | 38119              | 37776              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 62°F (16.7°C)                                      | 38773                               | 37998            | 37808            | 37657              | 37318              | 2.56                   | 2.58             | 2.59             | 2.59               | 2.60               |
|                  | 64.4°F (18.0°C)                                    | 38392                               | 37625            | 37436            | 37287              | 36951              | 2.42                   | 2.44             | 2.44             | 2.45               | 2.46               |
| 69.8°F (21.0°C)  | 37966                                              | 37206                               | 37020            | 36872            | 36540              | 2.10               | 2.12                   | 2.12             | 2.12             | 2.13               |                    |
| 75.2°F (24.0°C)  | 33413                                              | 32745                               | 32581            | 32451            | 32159              | 1.78               | 1.79                   | 1.80             | 1.80             | 1.81               |                    |

Table 14 – 37MUHA+ 45MULACooling Performance (30K - 36C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 618            | -22°F<br>30°C      | TC    | 23301           | 23292            | 23286            | 23421            | 24111            | 24326            | 24313            | 24302            | 24300            | 24284            | 25053            | 25040            | 25023            | 25020            | 25003            | 26427            | 26420            | 26401            | 26394            | 26355            |
|                |                    | S/T   | 0.77            | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 3.02            | 3.02             | 3.02             | 3.02             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 2.99             | 2.99             | 2.99             | 2.99             | 2.99             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             |
|                | -13°F<br>25°C      | TC    | 25242           | 25233            | 25226            | 25373            | 26120            | 26354            | 26339            | 26327            | 26325            | 26307            | 27140            | 27126            | 27108            | 27105            | 27086            | 28630            | 28622            | 28601            | 28594            | 28551            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 3.13            | 3.13             | 3.13             | 3.13             | 3.11             | 3.11             | 3.11             | 3.11             | 3.11             | 3.11             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.11             | 3.11             | 3.11             | 3.11             | 3.12             |
|                | -4°F<br>20°C       | TC    | 27184           | 27175            | 27167            | 27325            | 28129            | 28381            | 28365            | 28353            | 28350            | 28331            | 29228            | 29213            | 29193            | 29190            | 29170            | 30832            | 30824            | 30801            | 30793            | 30747            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 3.24            | 3.24             | 3.24             | 3.24             | 3.23             | 3.22             | 3.22             | 3.22             | 3.22             | 3.22             | 3.21             | 3.21             | 3.21             | 3.21             | 3.22             | 3.22             | 3.22             | 3.23             | 3.23             | 3.23             |
|                | 0°F<br>17.8°C      | TC    | 28081           | 28069            | 28177            | 28392            | 29179            | 29306            | 29283            | 29267            | 29264            | 29259            | 30165            | 30148            | 30120            | 30116            | 30089            | 31791            | 31781            | 31783            | 31786            | 31810            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 3.27            | 3.27             | 3.27             | 3.27             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             |
|                | 5°F<br>15°C        | TC    | 28907           | 28933            | 29323            | 29458            | 30358            | 30282            | 30288            | 30291            | 30292            | 30441            | 31273            | 31270            | 31279            | 31279            | 31283            | 33141            | 33132            | 33132            | 33134            | 33153            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 3.30            | 3.30             | 3.30             | 3.30             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.32             | 3.33             | 3.33             | 3.33             | 3.39             | 3.39             | 3.39             | 3.39             | 3.39             |
|                | 14°F<br>10°C       | TC    | 32920           | 32908            | 33044            | 33333            | 34367            | 34572            | 34553            | 34536            | 34533            | 34515            | 35767            | 35750            | 35723            | 35718            | 35688            | 38016            | 38005            | 37977            | 37968            | 37910            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.41            | 2.41             | 2.41             | 2.41             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             |
|                | 17°F<br>10°C       | TC    | 34295           | 34304            | 34724            | 34924            | 36049            | 36017            | 36020            | 36028            | 36029            | 36199            | 37165            | 37180            | 37204            | 37206            | 37215            | 39638            | 39625            | 39629            | 39637            | 39674            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.09            | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             |
|                | 23°F<br>5°C        | TC    | 33805           | 33852            | 34403            | 34571            | 35701            | 35540            | 35549            | 35554            | 35554            | 35765            | 36793            | 36792            | 36803            | 36805            | 36811            | 39165            | 39153            | 39155            | 39160            | 39187            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 2.13            | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             |
|                | 35°F<br>1.7°C      | TC    | 33290           | 33291            | 33355            | 33393            | 34251            | 34887            | 34882            | 34884            | 34885            | 34885            | 36008            | 36006            | 36002            | 36002            | 36006            | 38094            | 38085            | 38077            | 38082            | 38075            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 2.08            | 2.08             | 2.09             | 2.09             | 2.15             | 2.21             | 2.20             | 2.21             | 2.21             | 2.21             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
|                | 41°F<br>5°C        | TC    | 33125           | 33126            | 33218            | 33262            | 34207            | 34707            | 34703            | 34704            | 34704            | 34735            | 35817            | 35813            | 35810            | 35811            | 35815            | 37879            | 37870            | 37862            | 37866            | 37861            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 2.01            | 2.01             | 2.02             | 2.03             | 2.10             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             | 2.44             | 2.44             | 2.44             | 2.44             | 2.44             |
|                | 47°F<br>8.3°C      | TC    | 32958           | 32958            | 33085            | 33142            | 34162            | 34526            | 34521            | 34522            | 34522            | 34574            | 35625            | 35622            | 35619            | 35619            | 35621            | 37670            | 37660            | 37657            | 37656            | 37651            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.95            | 1.95             | 1.96             | 1.96             | 2.04             | 2.08             | 2.07             | 2.07             | 2.08             | 2.08             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             |
|                | 50°F<br>10°C       | TC    | 31581           | 32097            | 33169            | 33359            | 34637            | 33436            | 33456            | 33565            | 33608            | 34677            | 34753            | 34798            | 34818            | 34820            | 34977            | 37257            | 37275            | 37365            | 37375            | 37425            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.14            | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             |
|                | 59°F<br>15°C       | TC    | 29290           | 29995            | 31050            | 31237            | 32494            | 31077            | 31091            | 31245            | 31305            | 32532            | 32368            | 32402            | 32415            | 32417            | 32631            | 34839            | 34849            | 34917            | 34925            | 34959            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.01            | 2.01             | 2.02             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                | 68°F<br>20°C       | TC    | 27039           | 27912            | 28939            | 29121            | 30346            | 28729            | 28738            | 28963            | 29152            | 30379            | 29980            | 30004            | 30013            | 30014            | 30355            | 32372            | 32382            | 32434            | 32440            | 32463            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.89            | 1.90             | 1.91             | 1.91             | 1.92             | 1.91             | 1.91             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 77°F<br>25°C       | TC    | 24753           | 25701            | 26698            | 26875            | 28063            | 26362            | 26375            | 26678            | 26907            | 28096            | 27566            | 27597            | 27610            | 27642            | 28121            | 29855            | 29882            | 29949            | 29956            | 29989            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.79            | 1.79             | 1.80             | 1.80             | 1.81             | 1.80             | 1.80             | 1.80             | 1.80             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                | 82°F<br>27.8°C     | TC    | 24263           | 25292            | 26300            | 26479            | 27683            | 25865            | 25907            | 26332            | 26511            | 27715            | 27075            | 27111            | 27125            | 27167            | 27740            | 29368            | 29405            | 29479            | 29487            | 29522            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.90            | 1.91             | 1.91             | 1.92             | 1.92             | 1.91             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 86°F<br>30°C       | TC    | 24829           | 25979            | 27033            | 27219            | 28488            | 26468            | 26523            | 27065            | 27252            | 28510            | 27731            | 27764            | 27807            | 27833            | 28537            | 30115            | 30158            | 30229            | 30236            | 30268            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.               |                  |                  |                  |                  |                  |                  |

Table 14 – 37MUHA+ 45MULACooling Performance (30K - 36C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 824   | -22°F<br>30°C   | TC               | 30211            | 30198            | 30628            | 30755            | 31602            | 31521            | 31495            | 31475            | 31472            | 31446            | 32464            | 32423            | 32392            | 32388            | 32357            | 34243            | 34234            | 34163            |
| S/T            | 0.80               |       |                 | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
| PI             | 3.86               |       |                 | 3.86             | 3.85             | 3.85             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.84             | 3.83             | 3.83             | 3.84             | 3.84             | 3.84             | 3.86             | 3.86             | 3.86             | 3.86             | 3.86             |
| -13°F<br>25°C  | TC                 |       | 32729           | 32714            | 33181            | 33318            | 34235            | 34148            | 34120            | 34098            | 34095            | 34067            | 35169            | 35125            | 35092            | 35087            | 35053            | 37097            | 37086            | 37010            | 36996            | 36918            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 4.00            | 4.00             | 4.00             | 3.99             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 3.97             | 3.98             | 3.98             | 3.98             | 3.98             | 4.00             | 4.00             | 4.00             | 4.00             | 4.00             |
| -4°F<br>20°C   | TC                 |       | 35247           | 35231            | 35733            | 35881            | 36869            | 36775            | 36744            | 36721            | 36718            | 36687            | 37874            | 37827            | 37791            | 37786            | 37749            | 39950            | 39939            | 39857            | 39842            | 39758            |
|                | S/T                |       | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 4.15            | 4.15             | 4.14             | 4.14             | 4.13             | 4.12             | 4.12             | 4.13             | 4.13             | 4.13             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             | 4.14             | 4.14             | 4.14             | 4.14             | 4.15             |
| 0°F<br>17.8°C  | TC                 |       | 36416           | 36395            | 37070            | 37225            | 38247            | 37978            | 37936            | 37907            | 37902            | 38284            | 39095            | 39039            | 38991            | 38985            | 38966            | 41197            | 41187            | 41184            | 41190            | 41216            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 4.18            | 4.18             | 4.18             | 4.18             | 4.18             | 4.17             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.18             | 4.19             | 4.23             | 4.23             | 4.23             | 4.23             | 4.23             |
| 5°F<br>15°C    | TC                 |       | 37461           | 37589            | 38449            | 38626            | 39816            | 39217            | 39227            | 39230            | 39270            | 39856            | 40471            | 40482            | 40490            | 40491            | 40545            | 42845            | 42832            | 42855            | 42859            | 42878            |
|                | S/T                |       | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 4.21            | 4.21             | 4.22             | 4.22             | 4.25             | 4.23             | 4.23             | 4.23             | 4.23             | 4.25             | 4.26             | 4.26             | 4.26             | 4.26             | 4.27             | 4.35             | 4.35             | 4.36             | 4.36             | 4.36             |
| 14°F<br>10°C   | TC                 |       | 42693           | 42672            | 43543            | 43747            | 45103            | 44813            | 44773            | 44743            | 44738            | 45157            | 46348            | 46290            | 46243            | 46236            | 46189            | 49283            | 49267            | 49173            | 49156            | 49051            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 3.08            | 3.08             | 3.08             | 3.08             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.08             | 3.08             | 3.08             | 3.08             | 3.08             |
| 17°F<br>10°C   | TC                 |       | 44328           | 44473            | 45501            | 45723            | 47208            | 46535            | 46554            | 46563            | 46602            | 47259            | 48123            | 48141            | 48160            | 48163            | 48222            | 51180            | 51166            | 51158            | 51168            | 51211            |
|                | S/T                |       | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 2.67            | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             |
| 23°F<br>5°C    | TC                 |       | 43807           | 43996            | 45134            | 45357            | 46851            | 46026            | 46040            | 46045            | 46105            | 46902            | 47613            | 47629            | 47642            | 47643            | 47720            | 50627            | 50611            | 50647            | 50654            | 50683            |
|                | S/T                |       | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 2.72            | 2.73             | 2.73             | 2.74             | 2.75             | 2.74             | 2.74             | 2.74             | 2.74             | 2.75             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.81             | 2.81             | 2.82             | 2.82             | 2.82             |
| 35°F<br>1.7°C  | TC                 |       | 43173           | 43174            | 43428            | 43549            | 44954            | 45191            | 45189            | 45193            | 45193            | 45313            | 46605            | 46602            | 46605            | 46606            | 46610            | 49230            | 49218            | 49215            | 49213            | 49217            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 2.67            | 2.67             | 2.68             | 2.69             | 2.81             | 2.83             | 2.83             | 2.83             | 2.83             | 2.84             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 3.21             | 3.21             | 3.21             | 3.20             | 3.21             |
| 41°F<br>5°C    | TC                 |       | 42957           | 42957            | 43299            | 43600            | 44889            | 44955            | 44953            | 44956            | 44956            | 45114            | 46357            | 46354            | 46356            | 46357            | 46360            | 48958            | 48946            | 48943            | 48941            | 48946            |
|                | S/T                |       | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                | PI                 |       | 2.58            | 2.58             | 2.60             | 2.63             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.76             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
| 47°F<br>8.3°C  | TC                 |       | 42739           | 42767            | 43341            | 43534            | 44822            | 44721            | 44719            | 44720            | 44719            | 44927            | 46109            | 46105            | 46108            | 46108            | 46108            | 48691            | 48679            | 48674            | 48672            | 48677            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                | PI                 |       | 2.50            | 2.50             | 2.54             | 2.56             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             | 2.68             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.04             | 3.03             | 3.03             | 3.03             | 3.03             |
| 50°F<br>10°C   | TC                 |       | 40986           | 42115            | 43536            | 43788            | 45486            | 43300            | 43324            | 43624            | 43761            | 45529            | 44989            | 45048            | 45072            | 45074            | 45508            | 48091            | 48217            | 48342            | 48356            | 48417            |
|                | S/T                |       | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                | PI                 |       | 2.74            | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             | 2.73             | 2.73             | 2.73             | 2.73             |
| 59°F<br>15°C   | TC                 |       | 38037           | 39371            | 40768            | 41017            | 42686            | 40245            | 40299            | 40757            | 41060            | 42728            | 41905            | 41947            | 41962            | 42023            | 42763            | 44997            | 45087            | 45177            | 45187            | 45225            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 2.58            | 2.59             | 2.59             | 2.59             | 2.60             | 2.59             | 2.59             | 2.59             | 2.59             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.62             | 2.62             | 2.61             | 2.61             | 2.61             |
| 68°F<br>20°C   | TC                 |       | 35088           | 36586            | 37943            | 38184            | 39804            | 37147            | 37230            | 37984            | 38226            | 39844            | 38753            | 38782            | 38851            | 38886            | 39877            | 41756            | 41834            | 41899            | 41906            | 41928            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                | PI                 |       | 2.42            | 2.44             | 2.45             | 2.45             | 2.47             | 2.44             | 2.44             | 2.45             | 2.45             | 2.47             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
| 77°F<br>25°C   | TC                 |       | 32135           | 33682            | 35001            | 35234            | 36808            | 34067            | 34176            | 35039            | 35273            | 36845            | 35610            | 35650            | 35741            | 35781            | 36876            | 38461            | 38577            | 38667            | 38676            | 38712            |
|                | S/T                |       | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                | PI                 |       | 2.29            | 2.30             | 2.31             | 2.32             | 2.33             | 2.31             | 2.31             | 2.31             | 2.32             | 2.33             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.35             | 2.35             | 2.34             | 2.34             | 2.34             |
| 82°F<br>27.8°C | TC                 |       | 31524           | 33133            | 34470            | 34703            | 36293            | 33406            | 33535            | 34500            | 34742            | 36331            | 34960            | 35004            | 35113            | 35156            | 36363            | 37799            | 37941            | 38040            | 38050            | 38091            |
|                | S/T                |       | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                | PI                 |       | 2.43            | 2.45             | 2.46             | 2.46             | 2.47             | 2.45             | 2.45             | 2.46             | 2.46             | 2.47             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.48             |
| 86°F<br>30°C   | TC                 |       | 32433           | 34052            | 35445            | 35692            | 37354            | 34203            | 34361            | 35484            | 35733            | 37393            | 35824            | 35865            | 35997            | 36049            | 37425            | 38784            | 38933            | 39026            | 39035            | 39072            |
|                | S/T                |       | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                | PI                 |       | 2.82            | 2.83             | 2.85             | 2.85             | 2.87             | 2.84             | 2.84             | 2.85             | 2.85             | 2.87             | 2.86             | 2.85             | 2.85             | 2.86             | 2.87             | 2.89             | 2.89             | 2.89             | 2.89             |                  |

Table 15 – 37MUHA+ 45MULA Heating Performance (30K - 36C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 618              | -22°F (-30.0°C)                                    | 17532                               | 17182            | 17096            | 17027              | 16874              | 3.89                   | 3.92             | 3.93             | 3.94               | 3.95               |
|                  | -13°F (-25.0°C)                                    | 20000                               | 19600            | 19502            | 19424              | 19249              | 4.14                   | 4.17             | 4.18             | 4.19               | 4.20               |
|                  | -4°F (-20.0°C)                                     | 22941                               | 22482            | 22370            | 22280              | 22080              | 4.46                   | 4.50             | 4.51             | 4.52               | 4.54               |
|                  | 0°F (-17.8°C)                                      | 24815                               | 24319            | 24197            | 24100              | 23884              | 4.76                   | 4.79             | 4.80             | 4.81               | 4.83               |
|                  | 5°F (-15.0°C)                                      | 27158                               | 26615            | 26482            | 26376              | 26138              | 5.12                   | 5.16             | 5.17             | 5.18               | 5.20               |
|                  | 14°F (-10.0°C)                                     | 30446                               | 29837            | 29688            | 29569              | 29303              | 4.94                   | 4.98             | 4.99             | 5.00               | 5.02               |
|                  | 17°F (-8.3°C)                                      | 31542                               | 30911            | 30757            | 30634              | 30358              | 4.88                   | 4.92             | 4.93             | 4.94               | 4.96               |
|                  | 22°F (-5.6°C)                                      | 30450                               | 29841            | 29692            | 29573              | 29307              | 4.53                   | 4.57             | 4.58             | 4.59               | 4.61               |
|                  | 27°F (-2.8°C)                                      | 29357                               | 28770            | 28626            | 28512              | 28255              | 4.19                   | 4.22             | 4.23             | 4.24               | 4.26               |
|                  | 32°F (0.0°C)                                       | 28265                               | 27699            | 27561            | 27451              | 27204              | 3.84                   | 3.87             | 3.88             | 3.89               | 3.90               |
|                  | 35°F (1.7°C)                                       | 27609                               | 27057            | 26922            | 26814              | 26573              | 3.63                   | 3.66             | 3.67             | 3.68               | 3.69               |
|                  | 37°F (2.8°C)                                       | 28306                               | 27740            | 27601            | 27491              | 27244              | 3.60                   | 3.63             | 3.63             | 3.64               | 3.66               |
|                  | 42°F (5.6°C)                                       | 30049                               | 29448            | 29300            | 29183              | 28920              | 3.51                   | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 44.6°F (7.0°C)                                     | 30745                               | 30131            | 29980            | 29860              | 29591              | 3.47                   | 3.50             | 3.50             | 3.51               | 3.52               |
|                  | 47°F (8.3°C)                                       | 31791                               | 31155            | 30999            | 30875              | 30597              | 3.41                   | 3.44             | 3.45             | 3.45               | 3.47               |
|                  | 52°F (11.1°C)                                      | 31178                               | 30554            | 30402            | 30280              | 30008              | 3.12                   | 3.15             | 3.15             | 3.16               | 3.17               |
|                  | 57F (13.9°C)                                       | 30565                               | 29954            | 29804            | 29685              | 29418              | 2.83                   | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 59°F (15.0°C)                                      | 30320                               | 29714            | 29565            | 29447              | 29182              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 62°F (16.7°C)                                      | 29952                               | 29353            | 29207            | 29090              | 28828              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.58               |
|                  | 64.4°F (18.0°C)                                    | 29658                               | 29065            | 28920            | 28804              | 28545              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 69.8°F (21.0°C)                                    | 29328                               | 28742            | 28598            | 28484              | 28227              | 2.08                   | 2.09             | 2.10             | 2.10               | 2.11               |
|                  | 75.2°F (24.0°C)                                    | 25812                               | 25295            | 25169            | 25068              | 24843              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |
| 824              | -22°F (-30.0°C)                                    | 22695                               | 22241            | 22130            | 22042              | 21843              | 3.93                   | 3.96             | 3.97             | 3.97               | 3.99               |
|                  | -13°F (-25.0°C)                                    | 25890                               | 25372            | 25245            | 25144              | 24918              | 4.18                   | 4.21             | 4.22             | 4.23               | 4.24               |
|                  | -4°F (-20.0°C)                                     | 29697                               | 29103            | 28958            | 28842              | 28582              | 4.51                   | 4.55             | 4.56             | 4.56               | 4.58               |
|                  | 0°F (-17.8°C)                                      | 32123                               | 31481            | 31323            | 31198              | 30917              | 4.80                   | 4.84             | 4.85             | 4.86               | 4.88               |
|                  | 5°F (-15.0°C)                                      | 35156                               | 34453            | 34280            | 34143              | 33836              | 5.17                   | 5.21             | 5.22             | 5.23               | 5.25               |
|                  | 14°F (-10.0°C)                                     | 39412                               | 38624            | 38431            | 38277              | 37933              | 4.99                   | 5.03             | 5.04             | 5.05               | 5.07               |
|                  | 17°F (-8.3°C)                                      | 40831                               | 40015            | 39815            | 39655              | 39298              | 4.93                   | 4.97             | 4.98             | 4.99               | 5.01               |
|                  | 22°F (-5.6°C)                                      | 39417                               | 38629            | 38436            | 38282              | 37937              | 4.58                   | 4.62             | 4.63             | 4.64               | 4.65               |
|                  | 27°F (-2.8°C)                                      | 38003                               | 37243            | 37057            | 36908              | 36576              | 4.23                   | 4.26             | 4.27             | 4.28               | 4.30               |
|                  | 32°F (0.0°C)                                       | 36589                               | 35857            | 35678            | 35535              | 35215              | 3.88                   | 3.91             | 3.92             | 3.93               | 3.94               |
|                  | 35°F (1.7°C)                                       | 35740                               | 35025            | 34850            | 34711              | 34398              | 3.67                   | 3.70             | 3.71             | 3.72               | 3.73               |
|                  | 37°F (2.8°C)                                       | 36642                               | 35909            | 35730            | 35587              | 35267              | 3.63                   | 3.66             | 3.67             | 3.68               | 3.69               |
|                  | 42°F (5.6°C)                                       | 38898                               | 38120            | 37929            | 37777              | 37437              | 3.54                   | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 44.6°F (7.0°C)                                     | 39800                               | 39004            | 38809            | 38654              | 38306              | 3.50                   | 3.53             | 3.54             | 3.55               | 3.56               |
|                  | 47°F (8.3°C)                                       | 41153                               | 40330            | 40129            | 39968              | 39608              | 3.45                   | 3.48             | 3.48             | 3.49               | 3.50               |
|                  | 52°F (11.1°C)                                      | 40360                               | 39553            | 39355            | 39198              | 38845              | 3.15                   | 3.18             | 3.18             | 3.19               | 3.20               |
|                  | 57F (13.9°C)                                       | 39567                               | 38775            | 38581            | 38427              | 38081              | 2.86                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | 59°F (15.0°C)                                      | 39249                               | 38464            | 38272            | 38119              | 37776              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 62°F (16.7°C)                                      | 38773                               | 37998            | 37808            | 37657              | 37318              | 2.56                   | 2.58             | 2.59             | 2.59               | 2.60               |
|                  | 64.4°F (18.0°C)                                    | 38392                               | 37625            | 37436            | 37287              | 36951              | 2.42                   | 2.44             | 2.44             | 2.45               | 2.46               |
|                  | 69.8°F (21.0°C)                                    | 37966                               | 37206            | 37020            | 36872              | 36540              | 2.10                   | 2.12             | 2.12             | 2.12               | 2.13               |
|                  | 75.2°F (24.0°C)                                    | 33413                               | 32745            | 32581            | 32451              | 32159              | 1.78                   | 1.79             | 1.80             | 1.80               | 1.81               |

Table 16 – 37MUHA + Cooling Performance (36K - 36A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 525   | -22°F<br>30°C   | TC               | 23570            | 23561            | 23555            | 23692            | 24389            | 24607            | 24594            | 24583            | 24581            | 24564            | 25342            | 25329            | 25312            | 25309            | 25291            | 26732            | 26725            | 26706            |
| S/T            | 0.77               |       |                 | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
| PI             | 1.24               |       |                 | 1.24             | 1.24             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             |
| -13°F<br>25°C  | TC                 |       | 25534           | 25525            | 25518            | 25666            | 26421            | 26658            | 26643            | 26631            | 26629            | 26611            | 27454            | 27439            | 27421            | 27418            | 27399            | 28960            | 28952            | 28931            | 28924            | 28881            |
|                | S/T                |       | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 1.28            | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
| -4°F<br>20°C   | TC                 |       | 27498           | 27488            | 27481            | 27640            | 28454            | 28709            | 28693            | 28680            | 28678            | 28658            | 29565            | 29550            | 29530            | 29527            | 29507            | 31188            | 31180            | 31157            | 31149            | 31102            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.33            | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             |
| 0°F<br>17.8°C  | TC                 |       | 28405           | 28393            | 28503            | 28720            | 29515            | 29644            | 29621            | 29604            | 29601            | 29597            | 30513            | 30496            | 30468            | 30464            | 30437            | 32158            | 32148            | 32150            | 32153            | 32177            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.34            | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
| 5°F<br>15°C    | TC                 |       | 29241           | 29267            | 29662            | 29798            | 30709            | 30631            | 30638            | 30641            | 30642            | 30792            | 31634            | 31631            | 31640            | 31640            | 31644            | 33524            | 33514            | 33514            | 33517            | 33535            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.35            | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
| 14°F<br>10°C   | TC                 |       | 28875           | 28864            | 28984            | 29237            | 30145            | 30325            | 30307            | 30292            | 30290            | 30274            | 31372            | 31358            | 31333            | 31329            | 31303            | 33345            | 33335            | 33311            | 33303            | 33252            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.38            | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             |
| 17°F<br>10°C   | TC                 |       | 28789           | 28797            | 29149            | 29318            | 30261            | 30235            | 30238            | 30244            | 30245            | 30388            | 31199            | 31211            | 31231            | 31233            | 31241            | 33274            | 33264            | 33267            | 33274            | 33304            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.37            | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
| 23°F<br>5°C    | TC                 |       | 28486           | 28525            | 28990            | 29132            | 30084            | 29948            | 29956            | 29960            | 30137            | 31004            | 31003            | 31012            | 31014            | 31019            | 33003            | 32993            | 32994            | 32998            | 32998            | 33021            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 1.49            | 1.49             | 1.49             | 1.49             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.51             | 1.51             | 1.51             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
| 35°F<br>1.7°C  | TC                 |       | 28272           | 28273            | 28327            | 28359            | 29088            | 29628            | 29624            | 29625            | 29626            | 29627            | 30580            | 30578            | 30575            | 30575            | 30578            | 32351            | 32344            | 32337            | 32342            | 32336            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 1.60            | 1.60             | 1.61             | 1.61             | 1.66             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             |
| 41°F<br>5°C    | TC                 |       | 27781           | 27782            | 27859            | 27896            | 28688            | 29108            | 29104            | 29105            | 29106            | 29131            | 30039            | 30036            | 30033            | 30034            | 30037            | 31768            | 31761            | 31754            | 31758            | 31753            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 1.45            | 1.45             | 1.46             | 1.46             | 1.51             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
| 47°F<br>8.3°C  | TC                 |       | 27288           | 27288            | 27393            | 27441            | 28285            | 28587            | 28583            | 28583            | 28584            | 28627            | 29497            | 29494            | 29492            | 29492            | 29494            | 31190            | 31182            | 31180            | 31179            | 31174            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 1.30            | 1.30             | 1.30             | 1.31             | 1.36             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
| 50°F<br>10°C   | TC                 |       | 26629           | 27064            | 27968            | 28128            | 29206            | 28194            | 28210            | 28302            | 28338            | 29240            | 29304            | 29342            | 29359            | 29360            | 29493            | 31415            | 31430            | 31506            | 31515            | 31557            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 1.50            | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             | 1.50             |
| 59°F<br>15°C   | TC                 |       | 26167           | 26797            | 27740            | 27907            | 29030            | 27764            | 27776            | 27914            | 27968            | 29063            | 28917            | 28947            | 28959            | 28961            | 29152            | 31125            | 31133            | 31194            | 31201            | 31232            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 1.66            | 1.66             | 1.66             | 1.67             | 1.67             | 1.66             | 1.66             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |
| 68°F<br>20°C   | TC                 |       | 25731           | 26561            | 27538            | 27712            | 28877            | 27339            | 27347            | 27561            | 27741            | 28909            | 28529            | 28552            | 28560            | 28561            | 28886            | 30805            | 30815            | 30864            | 30870            | 30892            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 1.81            | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             |
| 77°F<br>25°C   | TC                 |       | 25246           | 26214            | 27230            | 27411            | 28622            | 26888            | 26901            | 27210            | 27443            | 28656            | 28115            | 28148            | 28161            | 28193            | 28682            | 30451            | 30478            | 30546            | 30554            | 30587            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 1.98            | 1.99             | 2.00             | 2.00             | 2.01             | 1.99             | 1.99             | 2.00             | 2.00             | 2.01             | 2.01             | 2.00             | 2.00             | 2.00             | 2.01             | 2.03             | 2.03             | 2.03             | 2.02             | 2.02             |
| 82°F<br>27.8°C | TC                 |       | 25373           | 26449            | 27503            | 27690            | 28949            | 27047            | 27091            | 27536            | 27723            | 28982            | 28313            | 28351            | 28365            | 28409            | 29008            | 30710            | 30750            | 30826            | 30835            | 30872            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 2.20            | 2.21             | 2.22             | 2.22             | 2.23             | 2.21             | 2.21             | 2.22             | 2.22             | 2.23             | 2.22             | 2.22             | 2.22             | 2.22             | 2.23             | 2.25             | 2.25             | 2.24             | 2.24             | 2.24             |
| 86°F<br>30°C   | TC                 |       | 25952           | 27154            | 28255            | 28450            | 29776            | 27665            | 27723            | 28289            | 28484            | 29799            | 28985            | 29019            | 29065            | 29092            | 29827            | 31477            | 31522            | 31596            | 31604            | 31637            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 2.52            | 2.54             | 2.55             | 2.55             | 2.57             | 2.54             | 2.54             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.59             | 2.59             | 2.59             |                  |                  |

Table 16 – 37MUHA + Cooling Performance (36K - 36A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 700            | -22°F<br>30°C      | TC    | 30560            | 30546            | 30982            | 31110            | 31967            | 31885            | 31859            | 31839            | 31836            | 31809            | 32838            | 32797            | 32766            | 32762            | 32730            | 34638            | 34629            | 34558            | 34545            | 34472            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
|                | -13°F<br>25°C      | TC    | 33107            | 33092            | 33564            | 33703            | 34631            | 34542            | 34514            | 34492            | 34489            | 34460            | 35575            | 35530            | 35497            | 35492            | 35458            | 37525            | 37515            | 37438            | 37424            | 37344            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | -4°F<br>20°C       | TC    | 35654            | 35637            | 36146            | 36295            | 37294            | 37199            | 37169            | 37145            | 37142            | 37111            | 38312            | 38263            | 38227            | 38222            | 38185            | 40411            | 40400            | 40317            | 40302            | 40217            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                | 0°F<br>17.8°C      | TC    | 36837            | 36815            | 37498            | 37655            | 38689            | 38417            | 38374            | 38345            | 38340            | 38726            | 39546            | 39490            | 39441            | 39435            | 39416            | 41673            | 41663            | 41659            | 41665            | 41692            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.72             | 1.72             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             |
|                | 5°F<br>15°C        | TC    | 37893            | 38023            | 38893            | 39072            | 40276            | 39670            | 39680            | 39683            | 39724            | 40316            | 40939            | 40949            | 40958            | 40959            | 41013            | 43340            | 43327            | 43349            | 43354            | 43373            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             |
|                | 14°F<br>10°C       | TC    | 37447            | 37429            | 38193            | 38372            | 39562            | 39307            | 39272            | 39245            | 39241            | 39608            | 40653            | 40602            | 40561            | 40555            | 40514            | 43227            | 43214            | 43131            | 43116            | 43024            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 17°F<br>10°C       | TC    | 37212            | 37333            | 38196            | 38382            | 39629            | 39064            | 39081            | 39088            | 39120            | 39672            | 40398            | 40413            | 40429            | 40431            | 40481            | 42964            | 42952            | 42945            | 42953            | 42989            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                | 23°F<br>5°C        | TC    | 36914            | 37073            | 38032            | 38220            | 39480            | 38784            | 38795            | 38800            | 38851            | 39522            | 40121            | 40135            | 40146            | 40147            | 40211            | 42661            | 42648            | 42678            | 42684            | 42709            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.90             | 1.90             | 1.91             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             |
|                | 35°F<br>1.7°C      | TC    | 36665            | 36666            | 36881            | 36984            | 38177            | 38378            | 38377            | 38380            | 38380            | 38483            | 39580            | 39577            | 39579            | 39580            | 39584            | 41809            | 41799            | 41797            | 41795            | 41798            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.05             | 2.05             | 2.07             | 2.08             | 2.16             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             |
|                | 41°F<br>5°C        | TC    | 36027            | 36027            | 36314            | 36566            | 37647            | 37702            | 37701            | 37703            | 37703            | 37836            | 38878            | 38876            | 38878            | 38879            | 38881            | 41060            | 41050            | 41047            | 41045            | 41050            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.86             | 1.86             | 1.88             | 1.89             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 47°F<br>8.3°C      | TC    | 35387            | 35410            | 35885            | 36046            | 37112            | 37028            | 37026            | 37027            | 37027            | 37198            | 38178            | 38174            | 38177            | 38176            | 38176            | 40315            | 40305            | 40301            | 40300            | 40304            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.66             | 1.66             | 1.70             | 1.71             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.86             | 1.85             | 1.86             | 1.86             | 1.86             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             |
|                | 50°F<br>10°C       | TC    | 34560            | 35511            | 36710            | 36922            | 38354            | 36511            | 36531            | 36784            | 36899            | 38390            | 37935            | 37985            | 38005            | 38007            | 38372            | 40550            | 40657            | 40762            | 40774            | 40825            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             |
|                | 59°F<br>15°C       | TC    | 33981            | 35173            | 36422            | 36643            | 38135            | 35954            | 36003            | 36411            | 36683            | 38172            | 37437            | 37475            | 37488            | 37542            | 38204            | 40200            | 40280            | 40361            | 40370            | 40403            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.13             | 2.13             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             |
|                | 68°F<br>20°C       | TC    | 33390            | 34815            | 36107            | 36336            | 37878            | 35349            | 35428            | 36146            | 36375            | 37916            | 36877            | 36905            | 36971            | 37003            | 37947            | 39735            | 39809            | 39871            | 39878            | 39898            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.32             | 2.33             | 2.35             | 2.35             | 2.36             | 2.34             | 2.34             | 2.35             | 2.35             | 2.36             | 2.36             | 2.36             | 2.35             | 2.36             | 2.36             | 2.39             | 2.39             | 2.38             | 2.38             | 2.38             |
|                | 77°F<br>25°C       | TC    | 32776            | 34354            | 35699            | 35937            | 37542            | 34747            | 34857            | 35738            | 35977            | 37580            | 36321            | 36361            | 36454            | 36495            | 37612            | 39228            | 39347            | 39438            | 39447            | 39484            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.54             | 2.55             | 2.56             | 2.56             | 2.58             | 2.56             | 2.56             | 2.56             | 2.56             | 2.58             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.60             | 2.60             | 2.60             | 2.60             | 2.59             |
|                | 82°F<br>27.8°C     | TC    | 32966            | 34648            | 36046            | 36290            | 37952            | 34933            | 35068            | 36077            | 36331            | 37992            | 36558            | 36604            | 36718            | 36763            | 38025            | 39527            | 39676            | 39779            | 39790            | 39833            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.82             | 2.83             | 2.85             | 2.85             | 2.86             | 2.84             | 2.84             | 2.84             | 2.85             | 2.86             | 2.85             | 2.85             | 2.85             | 2.85             | 2.86             | 2.88             | 2.88             | 2.88             | 2.88             | 2.87             |
|                | 86°F<br>30°C       | TC    | 33900            | 35592            | 37048            | 37306            | 39043            | 35750            | 35915            | 37089            | 37349            | 39084            | 37444            | 37487            | 37625            | 37679            | 39118            | 40538            | 40694            | 40791            | 40801            | 40839            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             |                  |

Table 17 – 37MUHA+ 45MULA Heating Performance (36K - 36A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 525              | -22°F (-30.0°C)                                    | 19311                               | 18925            | 18830            | 18755              | 18586              | 5.25                   | 5.29             | 5.30             | 5.32               | 5.34               |
|                  | -13°F (-25.0°C)                                    | 24309                               | 23823            | 23703            | 23609              | 23396              | 5.64                   | 5.68             | 5.70             | 5.71               | 5.73               |
|                  | -4°F (-20.0°C)                                     | 27931                               | 27372            | 27235            | 27126              | 26882              | 5.78                   | 5.83             | 5.84             | 5.85               | 5.88               |
|                  | 0°F (-17.8°C)                                      | 28504                               | 27934            | 27794            | 27683              | 27434              | 5.99                   | 6.04             | 6.05             | 6.06               | 6.09               |
|                  | 5°F (-15.0°C)                                      | 29220                               | 28636            | 28493            | 28379              | 28123              | 6.25                   | 6.30             | 6.31             | 6.32               | 6.35               |
|                  | 14°F (-10.0°C)                                     | 28898                               | 28320            | 28178            | 28066              | 27813              | 5.63                   | 5.67             | 5.68             | 5.69               | 5.72               |
|                  | 17°F (-8.3°C)                                      | 28790                               | 28215            | 28074            | 27961              | 27710              | 5.42                   | 5.46             | 5.47             | 5.48               | 5.51               |
|                  | 22°F (-5.6°C)                                      | 29088                               | 28506            | 28364            | 28250              | 27996              | 5.29                   | 5.33             | 5.34             | 5.35               | 5.38               |
|                  | 27°F (-2.8°C)                                      | 29385                               | 28797            | 28653            | 28539              | 28282              | 5.16                   | 5.20             | 5.21             | 5.22               | 5.24               |
|                  | 32°F (0.0°C)                                       | 29682                               | 29089            | 28943            | 28828              | 28568              | 5.03                   | 5.07             | 5.08             | 5.09               | 5.11               |
|                  | 35°F (1.7°C)                                       | 29861                               | 29264            | 29117            | 29001              | 28740              | 4.96                   | 5.00             | 5.01             | 5.02               | 5.04               |
|                  | 37°F (2.8°C)                                       | 30508                               | 29898            | 29749            | 29630              | 29363              | 4.91                   | 4.95             | 4.96             | 4.97               | 4.99               |
|                  | 42°F (5.6°C)                                       | 32127                               | 31484            | 31327            | 31201              | 30921              | 4.79                   | 4.83             | 4.84             | 4.85               | 4.87               |
|                  | 44.6°F (7.0°C)                                     | 32774                               | 32119            | 31958            | 31830              | 31544              | 4.75                   | 4.78             | 4.79             | 4.80               | 4.82               |
|                  | 47°F (8.3°C)                                       | 33745                               | 33070            | 32905            | 32773              | 32478              | 4.68                   | 4.71             | 4.72             | 4.73               | 4.75               |
|                  | 52°F (11.1°C)                                      | 32757                               | 32102            | 31942            | 31814              | 31527              | 4.23                   | 4.27             | 4.28             | 4.28               | 4.30               |
|                  | 57F (13.9°C)                                       | 31769                               | 31134            | 30978            | 30854              | 30577              | 3.79                   | 3.82             | 3.83             | 3.84               | 3.85               |
|                  | 59°F (15.0°C)                                      | 31374                               | 30746            | 30593            | 30470              | 30196              | 3.61                   | 3.64             | 3.65             | 3.66               | 3.67               |
|                  | 62°F (16.7°C)                                      | 30781                               | 30166            | 30015            | 29895              | 29626              | 3.35                   | 3.38             | 3.38             | 3.39               | 3.40               |
|                  | 64.4°F (18.0°C)                                    | 30307                               | 29701            | 29552            | 29434              | 29169              | 3.14                   | 3.16             | 3.17             | 3.17               | 3.19               |
|                  | 69.8°F (21.0°C)                                    | 31313                               | 30687            | 30534            | 30412              | 30138              | 2.66                   | 2.68             | 2.69             | 2.69               | 2.70               |
|                  | 75.2°F (24.0°C)                                    | 30573                               | 29962            | 29812            | 29693              | 29425              | 2.18                   | 2.20             | 2.20             | 2.21               | 2.22               |
| 700              | -22°F (-30.0°C)                                    | 24998                               | 24498            | 24375            | 24278              | 24059              | 5.30                   | 5.35             | 5.36             | 5.37               | 5.39               |
|                  | -13°F (-25.0°C)                                    | 31468                               | 30838            | 30684            | 30561              | 30286              | 5.70                   | 5.74             | 5.75             | 5.76               | 5.79               |
|                  | -4°F (-20.0°C)                                     | 36156                               | 35433            | 35256            | 35115              | 34799              | 5.84                   | 5.89             | 5.90             | 5.91               | 5.93               |
|                  | 0°F (-17.8°C)                                      | 36898                               | 36160            | 35980            | 35836              | 35513              | 6.05                   | 6.10             | 6.11             | 6.12               | 6.15               |
|                  | 5°F (-15.0°C)                                      | 37826                               | 37069            | 36884            | 36736              | 36406              | 6.31                   | 6.36             | 6.37             | 6.39               | 6.41               |
|                  | 14°F (-10.0°C)                                     | 37408                               | 36660            | 36477            | 36331              | 36004              | 5.68                   | 5.73             | 5.74             | 5.75               | 5.77               |
|                  | 17°F (-8.3°C)                                      | 37269                               | 36524            | 36341            | 36196              | 35870              | 5.47                   | 5.52             | 5.53             | 5.54               | 5.56               |
|                  | 22°F (-5.6°C)                                      | 37654                               | 36901            | 36717            | 36570              | 36241              | 5.34                   | 5.39             | 5.40             | 5.41               | 5.43               |
|                  | 27°F (-2.8°C)                                      | 38039                               | 37278            | 37092            | 36943              | 36611              | 5.21                   | 5.26             | 5.27             | 5.28               | 5.30               |
|                  | 32°F (0.0°C)                                       | 38424                               | 37655            | 37467            | 37317              | 36981              | 5.08                   | 5.12             | 5.13             | 5.15               | 5.17               |
|                  | 35°F (1.7°C)                                       | 38655                               | 37882            | 37692            | 37542              | 37204              | 5.01                   | 5.05             | 5.06             | 5.07               | 5.09               |
|                  | 37°F (2.8°C)                                       | 39493                               | 38703            | 38510            | 38355              | 38010              | 4.96                   | 5.00             | 5.01             | 5.02               | 5.04               |
|                  | 42°F (5.6°C)                                       | 41588                               | 40756            | 40552            | 40390              | 40027              | 4.84                   | 4.88             | 4.89             | 4.90               | 4.92               |
|                  | 44.6°F (7.0°C)                                     | 42426                               | 41578            | 41370            | 41204              | 40833              | 4.79                   | 4.83             | 4.84             | 4.85               | 4.87               |
|                  | 47°F (8.3°C)                                       | 43683                               | 42809            | 42595            | 42425              | 42043              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 52°F (11.1°C)                                      | 42404                               | 41556            | 41348            | 41183              | 40812              | 4.28                   | 4.31             | 4.32             | 4.33               | 4.35               |
|                  | 57F (13.9°C)                                       | 41125                               | 40303            | 40101            | 39941              | 39581              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 59°F (15.0°C)                                      | 40614                               | 39801            | 39602            | 39444              | 39089              | 3.65                   | 3.68             | 3.69             | 3.69               | 3.71               |
|                  | 62°F (16.7°C)                                      | 39846                               | 39049            | 38854            | 38699              | 38350              | 3.38                   | 3.41             | 3.42             | 3.42               | 3.44               |
|                  | 64.4°F (18.0°C)                                    | 39232                               | 38448            | 38255            | 38102              | 37759              | 3.17                   | 3.19             | 3.20             | 3.21               | 3.22               |
|                  | 69.8°F (21.0°C)                                    | 40535                               | 39724            | 39526            | 39368              | 39013              | 2.69                   | 2.71             | 2.71             | 2.72               | 2.73               |
|                  | 75.2°F (24.0°C)                                    | 39577                               | 38785            | 38592            | 38437              | 38091              | 2.20                   | 2.22             | 2.22             | 2.23               | 2.24               |

Table 18 – 37MUHA+ 45MULACooling Performance (36K - 36B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
| 670            | -22°F<br>30°C      | TC    | 26163           | 26154            | 26147            | 26299            | 27073            | 27315            | 27300            | 27288            | 27286            | 27267            | 28131            | 28116            | 28097            | 28094            | 28075            | 29674            | 29667            | 29645            | 29637            | 29593            |
|                |                    | S/T   | 0.77            | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.23            | 1.23             | 1.23             | 1.23             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             |
|                | -13°F<br>25°C      | TC    | 28344           | 28334            | 28326            | 28490            | 29329            | 29592            | 29575            | 29562            | 29560            | 29539            | 30475            | 30459            | 30439            | 30435            | 30414            | 32147            | 32139            | 32115            | 32107            | 32059            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.27            | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
|                | -4°F<br>20°C       | TC    | 30524           | 30513            | 30505            | 30682            | 31585            | 31868            | 31850            | 31836            | 31834            | 31812            | 32819            | 32802            | 32780            | 32777            | 32754            | 34620            | 34611            | 34585            | 34577            | 34525            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.32            | 1.32             | 1.32             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |
|                | 0°F<br>17.8°C      | TC    | 31531           | 31518            | 31640            | 31881            | 32764            | 32906            | 32881            | 32862            | 32859            | 32854            | 33871            | 33852            | 33821            | 33816            | 33786            | 35697            | 35686            | 35688            | 35692            | 35718            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.33            | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             |
|                | 5°F<br>15°C        | TC    | 32459           | 32488            | 32926            | 33077            | 34088            | 34002            | 34009            | 34013            | 34014            | 34181            | 35115            | 35112            | 35122            | 35123            | 35127            | 37213            | 37202            | 37203            | 37206            | 37226            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.34            | 1.34             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                | 14°F<br>10°C       | TC    | 31348           | 31337            | 31467            | 31742            | 32727            | 32922            | 32903            | 32887            | 32885            | 32868            | 34060            | 34044            | 34017            | 34013            | 33984            | 36202            | 36191            | 36164            | 36156            | 36101            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.27            | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
|                | 17°F<br>10°C       | TC    | 31019           | 31026            | 31406            | 31588            | 32605            | 32576            | 32579            | 32586            | 32586            | 32741            | 33615            | 33628            | 33649            | 33651            | 33659            | 35850            | 35839            | 35843            | 35850            | 35883            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.24            | 1.24             | 1.24             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             |
|                | 23°F<br>5°C        | TC    | 31594           | 31638            | 32152            | 32310            | 33366            | 33215            | 33224            | 33228            | 33229            | 33425            | 34386            | 34385            | 34396            | 34397            | 34403            | 36603            | 36592            | 36593            | 36598            | 36623            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.56            | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 35°F<br>1.7°C      | TC    | 33185           | 33186            | 33250            | 33288            | 34143            | 34777            | 34773            | 34774            | 34775            | 34776            | 35895            | 35893            | 35889            | 35889            | 35893            | 37974            | 37965            | 37957            | 37963            | 37956            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 2.04            | 2.04             | 2.05             | 2.05             | 2.11             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             |
|                | 41°F<br>5°C        | TC    | 30295           | 30296            | 30380            | 30420            | 31284            | 31741            | 31738            | 31739            | 31739            | 31767            | 32757            | 32753            | 32751            | 32751            | 32755            | 34643            | 34635            | 34627            | 34631            | 34626            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.69            | 1.69             | 1.70             | 1.70             | 1.76             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                | 47°F<br>8.3°C      | TC    | 27400           | 27400            | 27506            | 27554            | 28401            | 28704            | 28700            | 28701            | 28701            | 28744            | 29618            | 29615            | 29613            | 29613            | 29615            | 31318            | 31310            | 31307            | 31306            | 31302            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.34            | 1.34             | 1.35             | 1.35             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
|                | 50°F<br>10°C       | TC    | 26570           | 27005            | 27907            | 28066            | 29142            | 28132            | 28148            | 28240            | 28276            | 29176            | 29239            | 29277            | 29294            | 29296            | 29428            | 31346            | 31361            | 31437            | 31446            | 31488            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.63            | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
|                | 59°F<br>15°C       | TC    | 25606           | 26223            | 27145            | 27309            | 28408            | 27169            | 27181            | 27315            | 27368            | 28440            | 28297            | 28327            | 28339            | 28340            | 28527            | 30458            | 30466            | 30525            | 30532            | 30562            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.03            | 2.04             | 2.04             | 2.04             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                | 68°F<br>20°C       | TC    | 24670           | 25466            | 26403            | 26569            | 27687            | 26212            | 26220            | 26425            | 26598            | 27718            | 27353            | 27375            | 27383            | 27384            | 27696            | 29535            | 29545            | 29592            | 29598            | 29619            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.43            | 2.44             | 2.45             | 2.46             | 2.47             | 2.45             | 2.45             | 2.45             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
|                | 77°F<br>25°C       | TC    | 23692           | 24600            | 25554            | 25724            | 26861            | 25233            | 25245            | 25535            | 25754            | 26892            | 26385            | 26415            | 26428            | 26458            | 26917            | 28576            | 28602            | 28666            | 28673            | 28704            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.85            | 2.86             | 2.87             | 2.87             | 2.89             | 2.87             | 2.87             | 2.87             | 2.87             | 2.89             | 2.89             | 2.88             | 2.88             | 2.88             | 2.89             | 2.92             | 2.92             | 2.91             | 2.91             | 2.91             |
|                | 82°F<br>27.8°C     | TC    | 23983           | 25000            | 25997            | 26174            | 27364            | 25566            | 25608            | 26028            | 26205            | 27395            | 26763            | 26798            | 26812            | 26854            | 27420            | 29029            | 29066            | 29138            | 29147            | 29181            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 3.05            | 3.06             | 3.08             | 3.08             | 3.09             | 3.07             | 3.07             | 3.08             | 3.08             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
|                | 86°F<br>30°C       | TC    | 25245           | 26414            | 27486            | 27675            | 28965            | 26912            | 26968            | 27519            | 27708            | 28988            | 28196            | 28229            | 28273            | 28299            | 29015            | 30619            | 30664            | 30735            | 30743            | 30775            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 3.17            | 3.19             | 3.20             | 3.21             | 3.23             | 3.20             | 3.20             | 3.20             | 3.21             | 3.22             | 3.22             | 3.21             | 3.21             | 3.2              |                  |                  |                  |                  |                  |                  |

Table 18 – 37MUHA+ 45MULACooling Performance (36K - 36B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 900            | -22°F<br>30°C      | TC    | 34177            | 34161            | 34648            | 34792            | 35749            | 35658            | 35629            | 35606            | 35603            | 35574            | 36724            | 36678            | 36644            | 36638            | 36603            | 38737            | 38727            | 38647            | 38633            | 38551            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
|                | -13°F<br>25°C      | TC    | 37025            | 37008            | 37536            | 37691            | 38729            | 38630            | 38598            | 38574            | 38570            | 38538            | 39785            | 39735            | 39697            | 39692            | 39654            | 41965            | 41954            | 41868            | 41852            | 41763            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | -4°F<br>20°C       | TC    | 39873            | 39854            | 40423            | 40591            | 41708            | 41601            | 41567            | 41541            | 41537            | 41503            | 42845            | 42791            | 42751            | 42745            | 42704            | 45193            | 45181            | 45088            | 45071            | 44976            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                | 0°F<br>17.8°C      | TC    | 41196            | 41172            | 41936            | 42111            | 43267            | 42963            | 42915            | 42882            | 42877            | 43308            | 44226            | 44163            | 44108            | 44101            | 44080            | 46604            | 46593            | 46589            | 46596            | 46626            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             |
|                | 5°F<br>15°C        | TC    | 42377            | 42523            | 43495            | 43696            | 45042            | 44365            | 44376            | 44379            | 44424            | 45086            | 45783            | 45795            | 45804            | 45806            | 45867            | 48469            | 48454            | 48479            | 48485            | 48506            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             |
|                | 14°F<br>10°C       | TC    | 40959            | 40938            | 41774            | 41970            | 43271            | 42992            | 42954            | 42925            | 42920            | 43322            | 44465            | 44409            | 44364            | 44357            | 44312            | 47281            | 47266            | 47175            | 47159            | 47058            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | 17°F<br>10°C       | TC    | 40392            | 40524            | 41461            | 41663            | 43016            | 42403            | 42421            | 42428            | 42464            | 43062            | 43850            | 43867            | 43884            | 43886            | 43940            | 46636            | 46623            | 46616            | 46624            | 46663            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             |
|                | 23°F<br>5°C        | TC    | 41247            | 41425            | 42496            | 42706            | 44114            | 43336            | 43349            | 43354            | 43411            | 44161            | 44831            | 44846            | 44858            | 44859            | 44931            | 47669            | 47654            | 47688            | 47694            | 47722            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.01             | 2.01             | 2.01             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.07             | 2.07             | 2.07             | 2.07             | 2.08             |
|                | 35°F<br>1.7°C      | TC    | 43358            | 43360            | 43614            | 43736            | 45147            | 45385            | 45383            | 45387            | 45387            | 45508            | 46806            | 46802            | 46805            | 46806            | 46811            | 49441            | 49429            | 49427            | 49425            | 49429            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.64             | 2.64             | 2.66             | 2.66             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             |
|                | 41°F<br>5°C        | TC    | 39580            | 39580            | 39895            | 40172            | 41360            | 41420            | 41419            | 41422            | 41422            | 41567            | 42713            | 42710            | 42712            | 42713            | 42716            | 45109            | 45098            | 45095            | 45093            | 45098            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.18             | 2.18             | 2.20             | 2.22             | 2.31             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             |
|                | 47°F<br>8.3°C      | TC    | 35797            | 35821            | 36301            | 36464            | 37542            | 37457            | 37456            | 37457            | 37456            | 37630            | 38620            | 38617            | 38619            | 38619            | 38619            | 40782            | 40772            | 40769            | 40767            | 40771            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.73             | 1.73             | 1.76             | 1.77             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             |
|                | 50°F<br>10°C       | TC    | 34741            | 35698            | 36902            | 37116            | 38555            | 36703            | 36723            | 36977            | 37093            | 38592            | 38134            | 38184            | 38204            | 38206            | 38574            | 40763            | 40870            | 40976            | 40988            | 41039            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             |
|                | 59°F<br>15°C       | TC    | 33501            | 34676            | 35907            | 36126            | 37596            | 35446            | 35494            | 35897            | 36164            | 37633            | 36908            | 36945            | 36958            | 37012            | 37664            | 39632            | 39711            | 39790            | 39799            | 39832            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.63             | 2.63             | 2.64             | 2.64             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             |
|                | 68°F<br>20°C       | TC    | 32253            | 33630            | 34877            | 35099            | 36588            | 34145            | 34222            | 34915            | 35137            | 36624            | 35621            | 35648            | 35712            | 35743            | 36654            | 38382            | 38453            | 38513            | 38519            | 38540            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 3.14             | 3.16             | 3.17             | 3.18             | 3.20             | 3.17             | 3.17             | 3.17             | 3.18             | 3.20             | 3.19             | 3.19             | 3.19             | 3.19             | 3.20             | 3.23             | 3.23             | 3.23             | 3.23             | 3.22             |
|                | 77°F<br>25°C       | TC    | 30988            | 32480            | 33752            | 33976            | 35494            | 32851            | 32956            | 33788            | 34014            | 35530            | 34339            | 34378            | 34466            | 34504            | 35560            | 37088            | 37201            | 37287            | 37296            | 37330            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 3.68             | 3.70             | 3.71             | 3.72             | 3.74             | 3.70             | 3.71             | 3.72             | 3.72             | 3.74             | 3.73             | 3.72             | 3.72             | 3.72             | 3.74             | 3.77             | 3.77             | 3.76             | 3.76             | 3.76             |
|                | 82°F<br>27.8°C     | TC    | 31393            | 32996            | 34326            | 34559            | 36142            | 33267            | 33395            | 34356            | 34598            | 36180            | 34814            | 34858            | 34967            | 35010            | 36211            | 37642            | 37783            | 37882            | 37892            | 37933            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 3.94             | 3.96             | 3.98             | 3.98             | 4.00             | 3.97             | 3.97             | 3.98             | 3.98             | 4.00             | 3.99             | 3.99             | 3.99             | 3.99             | 4.00             | 4.03             | 4.03             | 4.03             | 4.02             | 4.02             |
|                | 86°F<br>30°C       | TC    | 33222            | 34881            | 36308            | 36561            | 38263            | 35036            | 35197            | 36348            | 36602            | 38303            | 36696            | 36738            | 36873            | 36926            | 38336            | 39728            | 39881            | 39976            | 39986            | 40023            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 4.10             | 4.12             | 4.14             | 4                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 19 – 37MUHA+ 45MULA Heating Performance (36K - 36B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 670              | -22°F (-30.0°C)                                    | 22481                               | 22032            | 21922            | 21834              | 21637              | 5.10                   | 5.14             | 5.15             | 5.16               | 5.19               |
|                  | -13°F (-25.0°C)                                    | 26967                               | 26428            | 26296            | 26191              | 25955              | 5.47                   | 5.52             | 5.53             | 5.54               | 5.56               |
|                  | -4°F (-20.0°C)                                     | 27348                               | 26801            | 26667            | 26561              | 26322              | 5.50                   | 5.55             | 5.56             | 5.57               | 5.59               |
|                  | 0°F (-17.8°C)                                      | 28071                               | 27510            | 27372            | 27263              | 27017              | 5.44                   | 5.48             | 5.49             | 5.51               | 5.53               |
|                  | 5°F (-15.0°C)                                      | 28974                               | 28395            | 28253            | 28140              | 27887              | 5.36                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 14°F (-10.0°C)                                     | 31207                               | 30582            | 30429            | 30308              | 30035              | 5.37                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 17°F (-8.3°C)                                      | 31951                               | 31312            | 31155            | 31030              | 30751              | 5.37                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 22°F (-5.6°C)                                      | 32605                               | 31953            | 31793            | 31666              | 31381              | 5.22                   | 5.26             | 5.27             | 5.28               | 5.30               |
|                  | 27°F (-2.8°C)                                      | 33259                               | 32594            | 32431            | 32301              | 32010              | 5.07                   | 5.11             | 5.12             | 5.13               | 5.15               |
|                  | 32°F (0.0°C)                                       | 33913                               | 33235            | 33068            | 32936              | 32640              | 4.92                   | 4.96             | 4.97             | 4.98               | 5.00               |
|                  | 35°F (1.7°C)                                       | 34305                               | 33619            | 33451            | 33317              | 33017              | 4.83                   | 4.87             | 4.88             | 4.89               | 4.91               |
|                  | 37°F (2.8°C)                                       | 34708                               | 34014            | 33844            | 33709              | 33405              | 4.77                   | 4.81             | 4.82             | 4.83               | 4.84               |
|                  | 42°F (5.6°C)                                       | 35716                               | 35001            | 34826            | 34687              | 34375              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.68               |
|                  | 44.6°F (7.0°C)                                     | 36119                               | 35396            | 35219            | 35078              | 34763              | 4.55                   | 4.58             | 4.59             | 4.60               | 4.62               |
|                  | 47°F (8.3°C)                                       | 36723                               | 35988            | 35809            | 35665              | 35344              | 4.45                   | 4.49             | 4.50             | 4.51               | 4.52               |
|                  | 52°F (11.1°C)                                      | 35376                               | 34669            | 34495            | 34357              | 34048              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 57°F (13.9°C)                                      | 34029                               | 33349            | 33182            | 33049              | 32752              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 59°F (15.0°C)                                      | 33491                               | 32821            | 32657            | 32526              | 32233              | 3.39                   | 3.41             | 3.42             | 3.43               | 3.44               |
|                  | 62°F (16.7°C)                                      | 32682                               | 32029            | 31869            | 31741              | 31455              | 3.12                   | 3.14             | 3.15             | 3.16               | 3.17               |
|                  | 64.4°F (18.0°C)                                    | 32036                               | 31395            | 31238            | 31113              | 30833              | 2.91                   | 2.93             | 2.94             | 2.94               | 2.95               |
|                  | 69.8°F (21.0°C)                                    | 34198                               | 33514            | 33347            | 33213              | 32914              | 2.43                   | 2.45             | 2.45             | 2.46               | 2.47               |
|                  | 75.2°F (24.0°C)                                    | 33608                               | 32936            | 32771            | 32640              | 32346              | 1.95                   | 1.96             | 1.97             | 1.97               | 1.98               |
| 900              | -22°F (-30.0°C)                                    | 29319                               | 28733            | 28589            | 28475              | 28219              | 5.15                   | 5.20             | 5.21             | 5.22               | 5.24               |
|                  | -13°F (-25.0°C)                                    | 35170                               | 34466            | 34294            | 34157              | 33849              | 5.53                   | 5.57             | 5.58             | 5.60               | 5.62               |
|                  | -4°F (-20.0°C)                                     | 35667                               | 34953            | 34779            | 34639              | 34328              | 5.56                   | 5.60             | 5.61             | 5.62               | 5.65               |
|                  | 0°F (-17.8°C)                                      | 36609                               | 35877            | 35697            | 35555              | 35235              | 5.49                   | 5.54             | 5.55             | 5.56               | 5.58               |
|                  | 5°F (-15.0°C)                                      | 37787                               | 37031            | 36846            | 36699              | 36369              | 5.42                   | 5.46             | 5.47             | 5.48               | 5.50               |
|                  | 14°F (-10.0°C)                                     | 40698                               | 39884            | 39685            | 39526              | 39170              | 5.42                   | 5.46             | 5.47             | 5.48               | 5.51               |
|                  | 17°F (-8.3°C)                                      | 41669                               | 40835            | 40631            | 40469              | 40104              | 5.42                   | 5.46             | 5.47             | 5.49               | 5.51               |
|                  | 22°F (-5.6°C)                                      | 42522                               | 41671            | 41463            | 41297              | 40925              | 5.27                   | 5.31             | 5.32             | 5.33               | 5.36               |
|                  | 27°F (-2.8°C)                                      | 43375                               | 42507            | 42295            | 42125              | 41746              | 5.12                   | 5.16             | 5.17             | 5.18               | 5.20               |
|                  | 32°F (0.0°C)                                       | 44228                               | 43343            | 43126            | 42954              | 42567              | 4.97                   | 5.01             | 5.02             | 5.03               | 5.05               |
|                  | 35°F (1.7°C)                                       | 44740                               | 43845            | 43625            | 43451              | 43060              | 4.88                   | 4.92             | 4.93             | 4.94               | 4.96               |
|                  | 37°F (2.8°C)                                       | 45265                               | 44360            | 44138            | 43961              | 43566              | 4.82                   | 4.85             | 4.86             | 4.87               | 4.89               |
|                  | 42°F (5.6°C)                                       | 46579                               | 45647            | 45419            | 45237              | 44830              | 4.66                   | 4.69             | 4.70             | 4.71               | 4.73               |
|                  | 44.6°F (7.0°C)                                     | 47104                               | 46162            | 45931            | 45748              | 45336              | 4.59                   | 4.63             | 4.64             | 4.65               | 4.67               |
|                  | 47°F (8.3°C)                                       | 47893                               | 46935            | 46700            | 46513              | 46095              | 4.50                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 52°F (11.1°C)                                      | 46136                               | 45213            | 44987            | 44807              | 44404              | 4.05                   | 4.08             | 4.09             | 4.10               | 4.11               |
|                  | 57°F (13.9°C)                                      | 44380                               | 43492            | 43275            | 43101              | 42714              | 3.60                   | 3.63             | 3.64             | 3.64               | 3.66               |
|                  | 59°F (15.0°C)                                      | 43677                               | 42803            | 42589            | 42419              | 42037              | 3.42                   | 3.45             | 3.46             | 3.46               | 3.48               |
|                  | 62°F (16.7°C)                                      | 42623                               | 41771            | 41562            | 41396              | 41023              | 3.15                   | 3.18             | 3.18             | 3.19               | 3.20               |
|                  | 64.4°F (18.0°C)                                    | 41780                               | 40944            | 40740            | 40577              | 40211              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 69.8°F (21.0°C)                                    | 44600                               | 43708            | 43489            | 43315              | 42926              | 2.45                   | 2.47             | 2.48             | 2.48               | 2.49               |
|                  | 75.2°F (24.0°C)                                    | 43830                               | 42953            | 42739            | 42568              | 42185              | 1.97                   | 1.98             | 1.99             | 1.99               | 2.00               |

Table 20 – 37MUHA+ 45MULACooling Performance (36K - 36C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 670   | -22°F<br>30°C   | TC               | 26163            | 26154            | 26147            | 26299            | 27073            | 27315            | 27300            | 27288            | 27286            | 27267            | 28131            | 28116            | 28097            | 28094            | 28075            | 29674            | 29667            | 29645            |
| S/T            | 0.77               |       |                 | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
| PI             | 1.23               |       |                 | 1.23             | 1.23             | 1.23             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             |
| -13°F<br>25°C  | TC                 |       | 28344           | 28334            | 28326            | 28490            | 29329            | 29592            | 29575            | 29562            | 29560            | 29539            | 30475            | 30459            | 30439            | 30435            | 30414            | 32147            | 32139            | 32115            | 32107            | 32059            |
|                | S/T                |       | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 1.27            | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
| -4°F<br>20°C   | TC                 |       | 30524           | 30513            | 30505            | 30682            | 31585            | 31868            | 31850            | 31836            | 31834            | 31812            | 32819            | 32802            | 32780            | 32777            | 32754            | 34620            | 34611            | 34585            | 34577            | 34525            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.32            | 1.32             | 1.32             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             |
| 0°F<br>17.8°C  | TC                 |       | 31531           | 31518            | 31640            | 31881            | 32764            | 32906            | 32881            | 32862            | 32859            | 32854            | 33871            | 33852            | 33821            | 33816            | 33786            | 35697            | 35686            | 35688            | 35692            | 35718            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.33            | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             |
| 5°F<br>15°C    | TC                 |       | 32459           | 32488            | 32926            | 33077            | 34088            | 34002            | 34009            | 34013            | 34014            | 34181            | 35115            | 35112            | 35122            | 35123            | 35127            | 37213            | 37202            | 37203            | 37206            | 37226            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.34            | 1.34             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
| 14°F<br>10°C   | TC                 |       | 31348           | 31337            | 31467            | 31742            | 32727            | 32922            | 32903            | 32887            | 32885            | 32868            | 34060            | 34044            | 34017            | 34013            | 33984            | 36202            | 36191            | 36164            | 36156            | 36101            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.27            | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             |
| 17°F<br>10°C   | TC                 |       | 31019           | 31026            | 31406            | 31588            | 32605            | 32576            | 32579            | 32586            | 32586            | 32741            | 33615            | 33628            | 33649            | 33651            | 33659            | 35850            | 35839            | 35843            | 35850            | 35883            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.24            | 1.24             | 1.24             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             | 1.24             |
| 23°F<br>5°C    | TC                 |       | 31594           | 31638            | 32152            | 32310            | 33366            | 33215            | 33224            | 33228            | 33229            | 33425            | 34386            | 34385            | 34396            | 34397            | 34403            | 36603            | 36592            | 36593            | 36598            | 36623            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 1.56            | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
| 35°F<br>1.7°C  | TC                 |       | 33185           | 33186            | 33250            | 33288            | 34143            | 34777            | 34773            | 34774            | 34775            | 34776            | 35895            | 35893            | 35889            | 35889            | 35893            | 37974            | 37965            | 37957            | 37963            | 37956            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 2.04            | 2.04             | 2.05             | 2.05             | 2.11             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             |
| 41°F<br>5°C    | TC                 |       | 30295           | 30296            | 30380            | 30420            | 31284            | 31741            | 31738            | 31739            | 31739            | 31767            | 32757            | 32753            | 32751            | 32751            | 32755            | 34643            | 34635            | 34627            | 34631            | 34626            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 1.69            | 1.69             | 1.70             | 1.70             | 1.76             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
| 47°F<br>8.3°C  | TC                 |       | 27400           | 27400            | 27506            | 27554            | 28401            | 28704            | 28700            | 28701            | 28701            | 28744            | 29618            | 29615            | 29613            | 29613            | 29615            | 31318            | 31310            | 31307            | 31306            | 31302            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 1.34            | 1.34             | 1.35             | 1.35             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 50°F<br>10°C   | TC                 |       | 26570           | 27005            | 27907            | 28066            | 29142            | 28132            | 28148            | 28240            | 28276            | 29176            | 29239            | 29277            | 29294            | 29296            | 29428            | 31346            | 31361            | 31437            | 31446            | 31488            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 1.63            | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 59°F<br>15°C   | TC                 |       | 25606           | 26223            | 27145            | 27309            | 28408            | 27169            | 27181            | 27315            | 27368            | 28440            | 28297            | 28327            | 28339            | 28340            | 28527            | 30458            | 30466            | 30525            | 30532            | 30562            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 2.03            | 2.04             | 2.04             | 2.04             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
| 68°F<br>20°C   | TC                 |       | 24670           | 25466            | 26403            | 26569            | 27687            | 26212            | 26220            | 26425            | 26598            | 27718            | 27353            | 27375            | 27383            | 27384            | 27696            | 29535            | 29545            | 29592            | 29598            | 29619            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 2.43            | 2.44             | 2.45             | 2.46             | 2.47             | 2.45             | 2.45             | 2.45             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
| 77°F<br>25°C   | TC                 |       | 23692           | 24600            | 25554            | 25724            | 26861            | 25233            | 25245            | 25535            | 25754            | 26892            | 26385            | 26415            | 26428            | 26458            | 26917            | 28576            | 28602            | 28666            | 28673            | 28704            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 2.85            | 2.86             | 2.87             | 2.87             | 2.89             | 2.87             | 2.87             | 2.87             | 2.87             | 2.89             | 2.89             | 2.88             | 2.88             | 2.88             | 2.89             | 2.92             | 2.92             | 2.91             | 2.91             | 2.91             |
| 82°F<br>27.8°C | TC                 |       | 23983           | 25000            | 25997            | 26174            | 27364            | 25566            | 25608            | 26028            | 26205            | 27395            | 26763            | 26798            | 26812            | 26854            | 27420            | 29029            | 29066            | 29138            | 29147            | 29181            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 3.05            | 3.06             | 3.08             | 3.08             | 3.09             | 3.07             | 3.07             | 3.08             | 3.08             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.09             | 3.12             | 3.12             | 3.12             | 3.12             | 3.12             |
| 86°F<br>30°C   | TC                 |       | 25245           | 26414            | 27486            | 27675            | 28965            | 26912            | 26968            | 27519            | 27708            | 28988            | 28196            | 28229            | 28273            | 28299            | 29015            | 30619            | 30664            | 30735            | 30743            | 30775            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 3.17            | 3.19             | 3.20             | 3.21             | 3.23             | 3.20             | 3.20             | 3.20             | 3.21             | 3.22             | 3.22             | 3.21             | 3.21             | 3.21             | 3.22             | 3.25             | 3.25             | 3.25             | 3.25             |                  |

Table 20 – 37MUHA+ 45MULACooling Performance (36K - 36C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 900            | -22°F<br>30°C      | TC    | 34177            | 34161            | 34648            | 34792            | 35749            | 35658            | 35629            | 35606            | 35603            | 35574            | 36724            | 36678            | 36644            | 36638            | 36603            | 38737            | 38727            | 38647            | 38633            | 38551            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
|                | -13°F<br>25°C      | TC    | 37025            | 37008            | 37536            | 37691            | 38729            | 38630            | 38598            | 38574            | 38570            | 38538            | 39785            | 39735            | 39697            | 39692            | 39654            | 41965            | 41954            | 41868            | 41852            | 41763            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | -4°F<br>20°C       | TC    | 39873            | 39854            | 40423            | 40591            | 41708            | 41601            | 41567            | 41541            | 41537            | 41503            | 42845            | 42791            | 42751            | 42745            | 42704            | 45193            | 45181            | 45088            | 45071            | 44976            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                | 0°F<br>17.8°C      | TC    | 41196            | 41172            | 41936            | 42111            | 43267            | 42963            | 42915            | 42882            | 42877            | 43308            | 44226            | 44163            | 44108            | 44101            | 44080            | 46604            | 46593            | 46589            | 46596            | 46626            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             |
|                | 5°F<br>15°C        | TC    | 42377            | 42523            | 43495            | 43696            | 45042            | 44365            | 44376            | 44379            | 44424            | 45086            | 45783            | 45795            | 45804            | 45806            | 45867            | 48469            | 48454            | 48479            | 48485            | 48506            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             |
|                | 14°F<br>10°C       | TC    | 40959            | 40938            | 41774            | 41970            | 43271            | 42992            | 42954            | 42925            | 42920            | 43322            | 44465            | 44409            | 44364            | 44357            | 44312            | 47281            | 47266            | 47175            | 47159            | 47058            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | 17°F<br>10°C       | TC    | 40392            | 40524            | 41461            | 41663            | 43016            | 42403            | 42421            | 42428            | 42464            | 43062            | 43850            | 43867            | 43884            | 43886            | 43940            | 46636            | 46623            | 46616            | 46624            | 46663            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                | 23°F<br>5°C        | TC    | 41247            | 41425            | 42496            | 42706            | 44114            | 43336            | 43349            | 43354            | 43411            | 44161            | 44831            | 44846            | 44858            | 44859            | 44931            | 47669            | 47654            | 47688            | 47694            | 47722            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.01             | 2.01             | 2.01             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.07             | 2.07             | 2.07             | 2.07             | 2.08             |
|                | 35°F<br>1.7°C      | TC    | 43358            | 43360            | 43614            | 43736            | 45147            | 45385            | 45383            | 45387            | 45387            | 45508            | 46806            | 46802            | 46805            | 46806            | 46811            | 49441            | 49429            | 49427            | 49425            | 49429            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.64             | 2.64             | 2.66             | 2.66             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 3.17             | 3.17             | 3.17             | 3.17             | 3.17             |
|                | 41°F<br>5°C        | TC    | 39580            | 39580            | 39895            | 40172            | 41360            | 41420            | 41419            | 41422            | 41422            | 41567            | 42713            | 42710            | 42712            | 42713            | 42716            | 45109            | 45098            | 45095            | 45093            | 45098            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.18             | 2.18             | 2.20             | 2.22             | 2.31             | 2.32             | 2.32             | 2.32             | 2.32             | 2.33             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             |
|                | 47°F<br>8.3°C      | TC    | 35797            | 35821            | 36301            | 36464            | 37542            | 37457            | 37456            | 37457            | 37456            | 37630            | 38620            | 38617            | 38619            | 38619            | 38619            | 40782            | 40772            | 40769            | 40767            | 40771            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.73             | 1.73             | 1.76             | 1.77             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             | 2.10             | 2.10             | 2.10             | 2.10             | 2.10             |
|                | 50°F<br>10°C       | TC    | 34741            | 35698            | 36902            | 37116            | 38555            | 36703            | 36723            | 36977            | 37093            | 38592            | 38134            | 38184            | 38204            | 38206            | 38574            | 40763            | 40870            | 40976            | 40988            | 41039            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             |
|                | 59°F<br>15°C       | TC    | 33501            | 34676            | 35907            | 36126            | 37596            | 35446            | 35494            | 35897            | 36164            | 37633            | 36908            | 36945            | 36958            | 37012            | 37664            | 39632            | 39711            | 39790            | 39799            | 39832            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.63             | 2.63             | 2.64             | 2.64             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.65             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             |
|                | 68°F<br>20°C       | TC    | 32253            | 33630            | 34877            | 35099            | 36588            | 34145            | 34222            | 34915            | 35137            | 36624            | 35621            | 35648            | 35712            | 35743            | 36654            | 38382            | 38453            | 38513            | 38519            | 38540            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 3.14             | 3.16             | 3.17             | 3.18             | 3.20             | 3.17             | 3.17             | 3.17             | 3.18             | 3.20             | 3.19             | 3.19             | 3.19             | 3.19             | 3.20             | 3.23             | 3.23             | 3.23             | 3.23             | 3.22             |
|                | 77°F<br>25°C       | TC    | 30988            | 32480            | 33752            | 33976            | 35494            | 32851            | 32956            | 33788            | 34014            | 35530            | 34339            | 34378            | 34466            | 34504            | 35560            | 37088            | 37201            | 37287            | 37296            | 37330            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 3.68             | 3.70             | 3.71             | 3.72             | 3.74             | 3.70             | 3.71             | 3.72             | 3.72             | 3.74             | 3.73             | 3.72             | 3.72             | 3.72             | 3.74             | 3.77             | 3.77             | 3.76             | 3.76             | 3.76             |
|                | 82°F<br>27.8°C     | TC    | 31393            | 32996            | 34326            | 34559            | 36142            | 33267            | 33395            | 34356            | 34598            | 36180            | 34814            | 34858            | 34967            | 35010            | 36211            | 37642            | 37783            | 37882            | 37892            | 37933            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 3.94             | 3.96             | 3.98             | 3.98             | 4.00             | 3.97             | 3.97             | 3.98             | 3.98             | 4.00             | 3.99             | 3.99             | 3.99             | 3.99             | 4.00             | 4.03             | 4.03             | 4.03             | 4.02             | 4.02             |
|                | 86°F<br>30°C       | TC    | 33222            | 34881            | 36308            | 36561            | 38263            | 35036            | 35197            | 36348            | 36602            | 38303            | 36696            | 36738            | 36873            | 36926            | 38336            | 39728            | 39881            | 39976            | 39986            | 40023            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 4.10             | 4.12             | 4.14             | 4.15             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 21 – 37MUHA+ 45MULA Heating Performance (36K - 36C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 670              | -22°F (-30.0°C)                                    | 22481                               | 22032            | 21922            | 21834              | 21637              | 5.10                   | 5.14             | 5.15             | 5.16               | 5.19               |
|                  | -13°F (-25.0°C)                                    | 26967                               | 26428            | 26296            | 26191              | 25955              | 5.47                   | 5.52             | 5.53             | 5.54               | 5.56               |
|                  | -4°F (-20.0°C)                                     | 27348                               | 26801            | 26667            | 26561              | 26322              | 5.50                   | 5.55             | 5.56             | 5.57               | 5.59               |
|                  | 0°F (-17.8°C)                                      | 28071                               | 27510            | 27372            | 27263              | 27017              | 5.44                   | 5.48             | 5.49             | 5.51               | 5.53               |
|                  | 5°F (-15.0°C)                                      | 28974                               | 28395            | 28253            | 28140              | 27887              | 5.36                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 14°F (-10.0°C)                                     | 31207                               | 30582            | 30429            | 30308              | 30035              | 5.37                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 17°F (-8.3°C)                                      | 31951                               | 31312            | 31155            | 31030              | 30751              | 5.37                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 22°F (-5.6°C)                                      | 32605                               | 31953            | 31793            | 31666              | 31381              | 5.22                   | 5.26             | 5.27             | 5.28               | 5.30               |
|                  | 27°F (-2.8°C)                                      | 33259                               | 32594            | 32431            | 32301              | 32010              | 5.07                   | 5.11             | 5.12             | 5.13               | 5.15               |
|                  | 32°F (0.0°C)                                       | 33913                               | 33235            | 33068            | 32936              | 32640              | 4.92                   | 4.96             | 4.97             | 4.98               | 5.00               |
|                  | 35°F (1.7°C)                                       | 34305                               | 33619            | 33451            | 33317              | 33017              | 4.83                   | 4.87             | 4.88             | 4.89               | 4.91               |
|                  | 37°F (2.8°C)                                       | 34708                               | 34014            | 33844            | 33709              | 33405              | 4.77                   | 4.81             | 4.82             | 4.83               | 4.84               |
|                  | 42°F (5.6°C)                                       | 35716                               | 35001            | 34826            | 34687              | 34375              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.68               |
|                  | 44.6°F (7.0°C)                                     | 36119                               | 35396            | 35219            | 35078              | 34763              | 4.55                   | 4.58             | 4.59             | 4.60               | 4.62               |
|                  | 47°F (8.3°C)                                       | 36723                               | 35988            | 35809            | 35665              | 35344              | 4.45                   | 4.49             | 4.50             | 4.51               | 4.52               |
|                  | 52°F (11.1°C)                                      | 35376                               | 34669            | 34495            | 34357              | 34048              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 57°F (13.9°C)                                      | 34029                               | 33349            | 33182            | 33049              | 32752              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 59°F (15.0°C)                                      | 33491                               | 32821            | 32657            | 32526              | 32233              | 3.39                   | 3.41             | 3.42             | 3.43               | 3.44               |
|                  | 62°F (16.7°C)                                      | 32682                               | 32029            | 31869            | 31741              | 31455              | 3.12                   | 3.14             | 3.15             | 3.16               | 3.17               |
|                  | 64.4°F (18.0°C)                                    | 32036                               | 31395            | 31238            | 31113              | 30833              | 2.91                   | 2.93             | 2.94             | 2.94               | 2.95               |
|                  | 69.8°F (21.0°C)                                    | 34198                               | 33514            | 33347            | 33213              | 32914              | 2.43                   | 2.45             | 2.45             | 2.46               | 2.47               |
|                  | 75.2°F (24.0°C)                                    | 33608                               | 32936            | 32771            | 32640              | 32346              | 1.95                   | 1.96             | 1.97             | 1.97               | 1.98               |
| 900              | -22°F (-30.0°C)                                    | 29319                               | 28733            | 28589            | 28475              | 28219              | 5.15                   | 5.20             | 5.21             | 5.22               | 5.24               |
|                  | -13°F (-25.0°C)                                    | 35170                               | 34466            | 34294            | 34157              | 33849              | 5.53                   | 5.57             | 5.58             | 5.60               | 5.62               |
|                  | -4°F (-20.0°C)                                     | 35667                               | 34953            | 34779            | 34639              | 34328              | 5.56                   | 5.60             | 5.61             | 5.62               | 5.65               |
|                  | 0°F (-17.8°C)                                      | 36609                               | 35877            | 35697            | 35555              | 35235              | 5.49                   | 5.54             | 5.55             | 5.56               | 5.58               |
|                  | 5°F (-15.0°C)                                      | 37787                               | 37031            | 36846            | 36699              | 36369              | 5.42                   | 5.46             | 5.47             | 5.48               | 5.50               |
|                  | 14°F (-10.0°C)                                     | 40698                               | 39884            | 39685            | 39526              | 39170              | 5.42                   | 5.46             | 5.47             | 5.48               | 5.51               |
|                  | 17°F (-8.3°C)                                      | 41669                               | 40835            | 40631            | 40469              | 40104              | 5.42                   | 5.46             | 5.47             | 5.49               | 5.51               |
|                  | 22°F (-5.6°C)                                      | 42522                               | 41671            | 41463            | 41297              | 40925              | 5.27                   | 5.31             | 5.32             | 5.33               | 5.36               |
|                  | 27°F (-2.8°C)                                      | 43375                               | 42507            | 42295            | 42125              | 41746              | 5.12                   | 5.16             | 5.17             | 5.18               | 5.20               |
|                  | 32°F (0.0°C)                                       | 44228                               | 43343            | 43126            | 42954              | 42567              | 4.97                   | 5.01             | 5.02             | 5.03               | 5.05               |
|                  | 35°F (1.7°C)                                       | 44740                               | 43845            | 43625            | 43451              | 43060              | 4.88                   | 4.92             | 4.93             | 4.94               | 4.96               |
|                  | 37°F (2.8°C)                                       | 45265                               | 44360            | 44138            | 43961              | 43566              | 4.82                   | 4.85             | 4.86             | 4.87               | 4.89               |
|                  | 42°F (5.6°C)                                       | 46579                               | 45647            | 45419            | 45237              | 44830              | 4.66                   | 4.69             | 4.70             | 4.71               | 4.73               |
|                  | 44.6°F (7.0°C)                                     | 47104                               | 46162            | 45931            | 45748              | 45336              | 4.59                   | 4.63             | 4.64             | 4.65               | 4.67               |
|                  | 47°F (8.3°C)                                       | 47893                               | 46935            | 46700            | 46513              | 46095              | 4.50                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 52°F (11.1°C)                                      | 46136                               | 45213            | 44987            | 44807              | 44404              | 4.05                   | 4.08             | 4.09             | 4.10               | 4.11               |
|                  | 57°F (13.9°C)                                      | 44380                               | 43492            | 43275            | 43101              | 42714              | 3.60                   | 3.63             | 3.64             | 3.64               | 3.66               |
|                  | 59°F (15.0°C)                                      | 43677                               | 42803            | 42589            | 42419              | 42037              | 3.42                   | 3.45             | 3.46             | 3.46               | 3.48               |
|                  | 62°F (16.7°C)                                      | 42623                               | 41771            | 41562            | 41396              | 41023              | 3.15                   | 3.18             | 3.18             | 3.19               | 3.20               |
|                  | 64.4°F (18.0°C)                                    | 41780                               | 40944            | 40740            | 40577              | 40211              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.98               |
|                  | 69.8°F (21.0°C)                                    | 44600                               | 43708            | 43489            | 43315              | 42926              | 2.45                   | 2.47             | 2.48             | 2.48               | 2.49               |
|                  | 75.2°F (24.0°C)                                    | 43830                               | 42953            | 42739            | 42568              | 42185              | 1.97                   | 1.98             | 1.99             | 1.99               | 2.00               |

Table 22 – 37MUHA+ 45MULACooling Performance (48K - 60C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    | ID DB |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 786            | -22°F<br>30°C      | TC    | 28306            | 28296            | 28288            | 28452            | 29290            | 29552            | 29536            | 29522            | 29520            | 29500            | 30434            | 30418            | 30398            | 30395            | 30373            | 32104            | 32096            | 32072            | 32064            | 32016            |
|                |                    | S/T   | 0.77             | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                | -13°F<br>25°C      | TC    | 30664            | 30654            | 30645            | 30823            | 31731            | 32015            | 31997            | 31983            | 31980            | 31958            | 32970            | 32953            | 32931            | 32927            | 32905            | 34779            | 34770            | 34744            | 34736            | 34684            |
|                |                    | S/T   | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.39             | 1.40             | 1.40             | 1.40             |
|                | -4°F<br>20°C       | TC    | 33023            | 33012            | 33002            | 33194            | 34171            | 34477            | 34458            | 34443            | 34440            | 34416            | 35506            | 35488            | 35464            | 35460            | 35436            | 37455            | 37445            | 37417            | 37408            | 37352            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.45             |
|                | 0°F<br>17.8°C      | TC    | 34113            | 34098            | 34230            | 34491            | 35446            | 35601            | 35574            | 35553            | 35550            | 35544            | 36645            | 36624            | 36590            | 36585            | 36552            | 38620            | 38608            | 38610            | 38614            | 38643            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.46             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             |
|                | 5°F<br>15°C        | TC    | 35116            | 35148            | 35622            | 35785            | 36879            | 36786            | 36794            | 36798            | 36799            | 36980            | 37990            | 37987            | 37997            | 37998            | 38003            | 40260            | 40249            | 40249            | 40252            | 40274            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                | 14°F<br>10°C       | TC    | 35011            | 34998            | 35143            | 35450            | 36550            | 36768            | 36747            | 36729            | 36727            | 36707            | 38039            | 38021            | 37992            | 37987            | 37954            | 40431            | 40419            | 40389            | 40380            | 40318            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.48             | 1.49             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
|                | 17°F<br>10°C       | TC    | 35019            | 35028            | 35457            | 35662            | 36810            | 36778            | 36781            | 36789            | 36790            | 36964            | 37950            | 37965            | 37990            | 37992            | 38001            | 40475            | 40462            | 40466            | 40474            | 40511            |
|                |                    | S/T   | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
|                | 23°F<br>5°C        | TC    | 36359            | 36409            | 37002            | 37183            | 38399            | 38225            | 38235            | 38240            | 38240            | 38467            | 39573            | 39571            | 39584            | 39585            | 39592            | 42124            | 42111            | 42113            | 42118            | 42147            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 2.02             | 2.02             | 2.03             | 2.03             | 2.04             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |
|                | 35°F<br>1.7°C      | TC    | 39549            | 39551            | 39627            | 39672            | 40691            | 41447            | 41441            | 41443            | 41444            | 41445            | 42779            | 42776            | 42771            | 42771            | 42776            | 45257            | 45246            | 45236            | 45243            | 45235            |
|                |                    | S/T   | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 2.90             | 2.90             | 2.90             | 2.91             | 3.00             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|                | 41°F<br>5°C        | TC    | 39042            | 39043            | 39151            | 39204            | 40316            | 40906            | 40901            | 40902            | 40903            | 40939            | 42215            | 42210            | 42207            | 42207            | 42212            | 44645            | 44634            | 44625            | 44630            | 44623            |
|                |                    | S/T   | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 2.88             | 2.88             | 2.89             | 2.90             | 3.00             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|                | 47°F<br>8.3°C      | TC    | 38530            | 38531            | 38679            | 38746            | 39938            | 40364            | 40358            | 40359            | 40359            | 40421            | 41649            | 41645            | 41642            | 41642            | 41645            | 44039            | 44028            | 44025            | 44024            | 44017            |
|                |                    | S/T   | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 2.86             | 2.86             | 2.88             | 2.88             | 3.01             | 3.05             | 3.05             | 3.05             | 3.05             | 3.06             | 3.19             | 3.19             | 3.19             | 3.19             | 3.19             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|                | 50°F<br>10°C       | TC    | 36800            | 37401            | 38650            | 38872            | 40361            | 38962            | 38985            | 39111            | 39162            | 40408            | 40496            | 40548            | 40572            | 40574            | 40757            | 43414            | 43435            | 43540            | 43552            | 43610            |
|                |                    | S/T   | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.07             | 3.06             | 3.06             | 3.06             | 3.06             | 3.06             |
|                | 59°F<br>15°C       | TC    | 33759            | 34572            | 35789            | 36004            | 37453            | 35820            | 35835            | 36013            | 36083            | 37496            | 37307            | 37347            | 37362            | 37364            | 37611            | 40156            | 40167            | 40245            | 40255            | 40294            |
|                |                    | S/T   | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.67             | 2.67             | 2.68             | 2.68             | 2.69             | 2.68             | 2.68             | 2.68             | 2.68             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             | 2.71             | 2.71             | 2.71             | 2.71             | 2.70             |
|                | 68°F<br>20°C       | TC    | 30769            | 31761            | 32930            | 33138            | 34531            | 32692            | 32702            | 32958            | 33173            | 34570            | 34115            | 34143            | 34152            | 34153            | 34542            | 36837            | 36849            | 36908            | 36915            | 36941            |
|                |                    | S/T   | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.28             | 2.29             | 2.30             | 2.30             | 2.31             | 2.30             | 2.30             | 2.30             | 2.30             | 2.32             | 2.31             | 2.31             | 2.31             | 2.31             | 2.32             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                | 77°F<br>25°C       | TC    | 27740            | 28803            | 29920            | 30119            | 31450            | 29544            | 29558            | 29898            | 30154            | 31487            | 30893            | 30928            | 30943            | 30979            | 31515            | 33459            | 33489            | 33564            | 33572            | 33609            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.91             | 1.92             | 1.93             | 1.93             | 1.94             | 1.92             | 1.92             | 1.93             | 1.93             | 1.94             | 1.94             | 1.93             | 1.93             | 1.93             | 1.94             | 1.96             | 1.96             | 1.95             | 1.95             | 1.95             |
|                | 82°F<br>27.8°C     | TC    | 27579            | 28749            | 29895            | 30098            | 31467            | 29400            | 29448            | 29931            | 30135            | 31502            | 30775            | 30816            | 30832            | 30880            | 31531            | 33381            | 33424            | 33508            | 33517            | 33557            |
|                |                    | S/T   | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 2.05             | 2.05             | 2.06             | 2.06             | 2.07             | 2.06             | 2.06             | 2.06             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.08             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 86°F<br>30°C       | TC    | 29334            | 30693            | 31938            | 32158            | 33657            | 31271            | 31336            | 31976            | 32197            | 33683            | 32763            | 32802            | 32853            | 32883            | 33715            | 35579            | 35630            | 35714            | 35723            | 35760            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00</           |                  |                  |                  |                  |                  |

Table 22 – 37MUHA+ 45MULACooling Performance (48K - 60C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 1050           | -22°F<br>30°C      | TC    | 36818            | 36801            | 37326            | 37481            | 38512            | 38414            | 38382            | 38358            | 38355            | 38323            | 39563            | 39513            | 39475            | 39470            | 39432            | 41731            | 41720            | 41634            | 41618            | 41530            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.73             | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             |                  |
|                | -13°F<br>25°C      | TC    | 39886            | 39868            | 40437            | 40604            | 41722            | 41615            | 41581            | 41555            | 41551            | 41516            | 42860            | 42806            | 42765            | 42759            | 42718            | 45209            | 45196            | 45103            | 45087            | 44991            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.80             | 1.80             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                | -4°F<br>20°C       | TC    | 42954            | 42935            | 43547            | 43728            | 44931            | 44816            | 44780            | 44751            | 44747            | 44710            | 46156            | 46098            | 46055            | 46048            | 46004            | 48686            | 48673            | 48573            | 48555            | 48452            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.86             | 1.86             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             |
|                | 0°F<br>17.8°C      | TC    | 44380            | 44353            | 45177            | 45365            | 46611            | 46283            | 46232            | 46196            | 46191            | 46655            | 47644            | 47576            | 47517            | 47510            | 47487            | 50206            | 50194            | 50190            | 50197            | 50229            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             |
|                | 5°F<br>15°C        | TC    | 45652            | 45809            | 46856            | 47073            | 48523            | 47793            | 47805            | 47808            | 47858            | 48571            | 49321            | 49334            | 49344            | 49346            | 49411            | 52215            | 52199            | 52226            | 52232            | 52255            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.89             | 1.89             | 1.90             | 1.90             | 1.91             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                | 14°F<br>10°C       | TC    | 45549            | 45527            | 46456            | 46674            | 48121            | 47811            | 47769            | 47736            | 47731            | 48178            | 49449            | 49387            | 49337            | 49329            | 49279            | 52580            | 52564            | 52463            | 52445            | 52333            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.91             | 1.91             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             |
|                | 17°F<br>10°C       | TC    | 45409            | 45557            | 46610            | 46837            | 48358            | 47669            | 47689            | 47698            | 47738            | 48410            | 49296            | 49314            | 49334            | 49336            | 49397            | 52427            | 52413            | 52405            | 52415            | 52459            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             |
|                | 23°F<br>5°C        | TC    | 47267            | 47470            | 48698            | 48939            | 50551            | 49660            | 49675            | 49681            | 49746            | 50606            | 51373            | 51391            | 51404            | 51405            | 51488            | 54625            | 54608            | 54647            | 54655            | 54686            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.60             | 2.60             | 2.61             | 2.61             | 2.62             | 2.61             | 2.61             | 2.61             | 2.62             | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             |
|                | 35°F<br>1.7°C      | TC    | 51454            | 51456            | 51758            | 51902            | 53576            | 53859            | 53857            | 53861            | 53862            | 54005            | 55545            | 55541            | 55544            | 55545            | 55551            | 58672            | 58658            | 58656            | 58653            | 58658            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 3.72             | 3.72             | 3.75             | 3.76             | 3.92             | 3.94             | 3.94             | 3.94             | 3.94             | 3.96             | 4.12             | 4.12             | 4.12             | 4.12             | 4.12             | 4.47             | 4.47             | 4.47             | 4.47             | 4.47             |
|                | 41°F<br>5°C        | TC    | 50791            | 50791            | 51195            | 51551            | 53075            | 53153            | 53152            | 53154            | 53154            | 53341            | 54811            | 54807            | 54810            | 54811            | 54815            | 57886            | 57872            | 57868            | 57866            | 57872            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 3.70             | 3.70             | 3.74             | 3.77             | 3.92             | 3.93             | 3.93             | 3.93             | 3.93             | 3.95             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             |
|                | 47°F<br>8.3°C      | TC    | 50125            | 50158            | 50831            | 51058            | 52569            | 52449            | 52447            | 52449            | 52448            | 52691            | 54078            | 54073            | 54077            | 54076            | 54076            | 57105            | 57091            | 57086            | 57084            | 57090            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 3.68             | 3.69             | 3.75             | 3.78             | 3.94             | 3.92             | 3.92             | 3.92             | 3.92             | 3.95             | 4.11             | 4.11             | 4.11             | 4.11             | 4.11             | 4.48             | 4.48             | 4.48             | 4.48             | 4.48             |
|                | 50°F<br>10°C       | TC    | 47912            | 49231            | 50892            | 51187            | 53172            | 50617            | 50645            | 50995            | 51155            | 53222            | 52591            | 52660            | 52687            | 52691            | 53197            | 56216            | 56365            | 56510            | 56527            | 56598            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 3.95             | 3.95             | 3.95             | 3.95             | 3.94             | 3.95             | 3.95             | 3.95             | 3.95             | 3.94             | 3.95             | 3.95             | 3.95             | 3.95             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             | 3.94             |
|                | 59°F<br>15°C       | TC    | 43981            | 45524            | 47140            | 47426            | 49356            | 46534            | 46597            | 47126            | 47477            | 49405            | 48454            | 48503            | 48519            | 48590            | 49446            | 52029            | 52133            | 52237            | 52249            | 52293            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 3.43             | 3.44             | 3.45             | 3.45             | 3.46             | 3.45             | 3.45             | 3.45             | 3.45             | 3.46             | 3.46             | 3.46             | 3.46             | 3.46             | 3.46             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
|                | 68°F<br>20°C       | TC    | 40055            | 41765            | 43314            | 43590            | 45439            | 42405            | 42501            | 43361            | 43637            | 45484            | 44238            | 44272            | 44351            | 44390            | 45522            | 47667            | 47755            | 47830            | 47838            | 47863            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.93             | 2.95             | 2.96             | 2.97             | 2.98             | 2.95             | 2.95             | 2.96             | 2.97             | 2.98             | 2.97             | 2.97             | 2.97             | 2.97             | 2.98             | 3.02             | 3.01             | 3.01             | 3.01             | 3.01             |
|                | 77°F<br>25°C       | TC    | 36129            | 37868            | 39350            | 39613            | 41382            | 38301            | 38423            | 39393            | 39657            | 41424            | 40036            | 40081            | 40183            | 40228            | 41459            | 43240            | 43371            | 43472            | 43482            | 43523            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.46             | 2.47             | 2.48             | 2.48             | 2.49             | 2.47             | 2.47             | 2.48             | 2.48             | 2.50             | 2.49             | 2.49             | 2.49             | 2.49             | 2.50             | 2.52             | 2.52             | 2.51             | 2.51             | 2.51             |
|                | 82°F<br>27.8°C     | TC    | 35947            | 37782            | 39306            | 39572            | 41385            | 38093            | 38240            | 39340            | 39617            | 41428            | 39864            | 39915            | 40039            | 40088            | 41464            | 43102            | 43264            | 43377            | 43388            | 43435            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.63             | 2.65             | 2.66             | 2.66             | 2.67             | 2.65             | 2.65             | 2.66             | 2.66             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             | 2.67             | 2.69             | 2.69             | 2.69             | 2.69             | 2.69             |
|                | 86°F<br>30°C       | TC    | 38440            | 40359            | 42010            | 42302            | 44273            | 40538            | 40725            | 42056            | 42351            | 44318            | 42459            | 42508            | 42664            | 42725            | 44357            | 45967            | 46144            | 46254            | 46265            | 46308            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 3.32             | 3.34             | 3.36             | 3.36             | 3.38</           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 23 – 37MUHA+ 45MULAH Heating Performance (48K - 60C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 785              | -22°F (-30.0°C)                                    | 24558                               | 24066            | 23946            | 23850              | 23636              | 5.37                   | 5.42             | 5.43             | 5.44               | 5.46               |
|                  | -13°F (-25.0°C)                                    | 28327                               | 27761            | 27622            | 27511              | 27264              | 5.84                   | 5.89             | 5.90             | 5.91               | 5.94               |
|                  | -4°F (-20.0°C)                                     | 31280                               | 30655            | 30502            | 30380              | 30106              | 6.07                   | 6.12             | 6.13             | 6.14               | 6.17               |
|                  | 0°F (-17.8°C)                                      | 33159                               | 32496            | 32334            | 32204              | 31915              | 6.29                   | 6.34             | 6.35             | 6.36               | 6.39               |
|                  | 5°F (-15.0°C)                                      | 35508                               | 34798            | 34624            | 34485              | 34175              | 6.55                   | 6.61             | 6.62             | 6.63               | 6.66               |
|                  | 14°F (-10.0°C)                                     | 35007                               | 34307            | 34135            | 33999              | 33693              | 5.81                   | 5.85             | 5.87             | 5.88               | 5.90               |
|                  | 17°F (-8.3°C)                                      | 34840                               | 34143            | 33972            | 33836              | 33532              | 5.56                   | 5.60             | 5.61             | 5.63               | 5.65               |
|                  | 22°F (-5.6°C)                                      | 37124                               | 36382            | 36200            | 36055              | 35730              | 5.74                   | 5.79             | 5.80             | 5.81               | 5.84               |
|                  | 27°F (-2.8°C)                                      | 39408                               | 38620            | 38427            | 38274              | 37929              | 5.93                   | 5.98             | 5.99             | 6.00               | 6.02               |
|                  | 32°F (0.0°C)                                       | 41693                               | 40859            | 40655            | 40492              | 40128              | 6.11                   | 6.16             | 6.18             | 6.19               | 6.21               |
|                  | 35°F (1.7°C)                                       | 43063                               | 42202            | 41991            | 41823              | 41447              | 6.22                   | 6.27             | 6.29             | 6.30               | 6.33               |
|                  | 37°F (2.8°C)                                       | 42908                               | 42050            | 41840            | 41672              | 41297              | 6.01                   | 6.06             | 6.07             | 6.08               | 6.11               |
|                  | 42°F (5.6°C)                                       | 42520                               | 41669            | 41461            | 41295              | 40923              | 5.48                   | 5.52             | 5.53             | 5.54               | 5.57               |
|                  | 44.6°F (7.0°C)                                     | 42364                               | 41517            | 41309            | 41144              | 40774              | 5.26                   | 5.31             | 5.32             | 5.33               | 5.35               |
|                  | 47°F (8.3°C)                                       | 42131                               | 41289            | 41082            | 40918              | 40549              | 4.94                   | 4.98             | 4.99             | 5.00               | 5.02               |
|                  | 52°F (11.1°C)                                      | 39334                               | 38548            | 38355            | 38202              | 37858              | 4.41                   | 4.45             | 4.46             | 4.46               | 4.48               |
|                  | 57°F (13.9°C)                                      | 36538                               | 35807            | 35628            | 35485              | 35166              | 3.88                   | 3.91             | 3.92             | 3.93               | 3.94               |
|                  | 59°F (15.0°C)                                      | 35419                               | 34711            | 34537            | 34399              | 34089              | 3.67                   | 3.70             | 3.70             | 3.71               | 3.73               |
|                  | 62°F (16.7°C)                                      | 33741                               | 33066            | 32901            | 32769              | 32474              | 3.35                   | 3.37             | 3.38             | 3.39               | 3.40               |
|                  | 64.4°F (18.0°C)                                    | 32399                               | 31751            | 31592            | 31466              | 31182              | 3.09                   | 3.12             | 3.12             | 3.13               | 3.14               |
|                  | 69.8°F (21.0°C)                                    | 29378                               | 28791            | 28647            | 28532              | 28275              | 2.52                   | 2.54             | 2.54             | 2.55               | 2.56               |
|                  | 75.2°F (24.0°C)                                    | 26358                               | 25831            | 25701            | 25599              | 25368              | 1.94                   | 1.96             | 1.96             | 1.97               | 1.97               |
| 1050             | -22°F (-30.0°C)                                    | 31891                               | 31253            | 31097            | 30973              | 30694              | 5.43                   | 5.47             | 5.48             | 5.49               | 5.52               |
|                  | -13°F (-25.0°C)                                    | 36786                               | 36051            | 35870            | 35727              | 35405              | 5.90                   | 5.95             | 5.96             | 5.97               | 6.00               |
|                  | -4°F (-20.0°C)                                     | 40621                               | 39809            | 39610            | 39451              | 39096              | 6.13                   | 6.18             | 6.19             | 6.21               | 6.23               |
|                  | 0°F (-17.8°C)                                      | 43061                               | 42200            | 41989            | 41821              | 41445              | 6.35                   | 6.40             | 6.41             | 6.43               | 6.45               |
|                  | 5°F (-15.0°C)                                      | 46112                               | 45189            | 44963            | 44783              | 44380              | 6.62                   | 6.67             | 6.69             | 6.70               | 6.73               |
|                  | 14°F (-10.0°C)                                     | 45461                               | 44551            | 44329            | 44151              | 43754              | 5.87                   | 5.91             | 5.93             | 5.94               | 5.96               |
|                  | 17°F (-8.3°C)                                      | 45244                               | 44339            | 44117            | 43941              | 43545              | 5.61                   | 5.66             | 5.67             | 5.68               | 5.71               |
|                  | 22°F (-5.6°C)                                      | 48210                               | 47246            | 47010            | 46822              | 46400              | 5.80                   | 5.85             | 5.86             | 5.87               | 5.90               |
|                  | 27°F (-2.8°C)                                      | 51177                               | 50153            | 49902            | 49703              | 49255              | 5.99                   | 6.04             | 6.05             | 6.06               | 6.09               |
|                  | 32°F (0.0°C)                                       | 54143                               | 53060            | 52795            | 52584              | 52111              | 6.18                   | 6.23             | 6.24             | 6.25               | 6.28               |
|                  | 35°F (1.7°C)                                       | 55923                               | 54805            | 54531            | 54312              | 53824              | 6.29                   | 6.34             | 6.35             | 6.36               | 6.39               |
|                  | 37°F (2.8°C)                                       | 55721                               | 54607            | 54334            | 54116              | 53629              | 6.07                   | 6.12             | 6.13             | 6.15               | 6.17               |
|                  | 42°F (5.6°C)                                       | 55217                               | 54112            | 53842            | 53627              | 53144              | 5.53                   | 5.58             | 5.59             | 5.60               | 5.62               |
|                  | 44.6°F (7.0°C)                                     | 55015                               | 53915            | 53645            | 53431              | 52950              | 5.32                   | 5.36             | 5.37             | 5.38               | 5.40               |
|                  | 47°F (8.3°C)                                       | 54712                               | 53618            | 53350            | 53137              | 52658              | 4.99                   | 5.03             | 5.04             | 5.05               | 5.07               |
|                  | 52°F (11.1°C)                                      | 51081                               | 50059            | 49809            | 49609              | 49163              | 4.46                   | 4.49             | 4.50             | 4.51               | 4.53               |
|                  | 57°F (13.9°C)                                      | 47449                               | 46500            | 46267            | 46082              | 45667              | 3.92                   | 3.95             | 3.96             | 3.97               | 3.98               |
|                  | 59°F (15.0°C)                                      | 45996                               | 45076            | 44851            | 44671              | 44269              | 3.70                   | 3.73             | 3.74             | 3.75               | 3.76               |
|                  | 62°F (16.7°C)                                      | 43817                               | 42940            | 42726            | 42555              | 42172              | 3.38                   | 3.41             | 3.41             | 3.42               | 3.44               |
|                  | 64.4°F (18.0°C)                                    | 42074                               | 41232            | 41026            | 40862              | 40494              | 3.12                   | 3.15             | 3.15             | 3.16               | 3.17               |
|                  | 69.8°F (21.0°C)                                    | 38151                               | 37388            | 37201            | 37052              | 36719              | 2.54                   | 2.56             | 2.57             | 2.57               | 2.58               |
|                  | 75.2°F (24.0°C)                                    | 34229                               | 33544            | 33376            | 33243              | 32944              | 1.96                   | 1.98             | 1.98             | 1.99               | 1.99               |

Table 24 – 37MUHA+ 45MULACooling Performance (48K - 60D)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
| 790            | -22°F<br>30°C      | TC    | 28283           | 28273            | 28265            | 28430            | 29266            | 29528            | 29512            | 29499            | 29497            | 29476            | 30410            | 30394            | 30374            | 30370            | 30349            | 32079            | 32070            | 32046            | 32038            | 31990            |
|                |                    | S/T   | 0.77            | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.43            | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                | -13°F<br>25°C      | TC    | 30640           | 30629            | 30621            | 30799            | 31705            | 31989            | 31971            | 31957            | 31955            | 31933            | 32944            | 32927            | 32905            | 32901            | 32878            | 34752            | 34742            | 34717            | 34708            | 34656            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.48            | 1.48             | 1.48             | 1.48             | 1.48             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
|                | -4°F<br>20°C       | TC    | 32997           | 32985            | 32976            | 33168            | 34144            | 34450            | 34431            | 34415            | 34413            | 34389            | 35478            | 35460            | 35436            | 35432            | 35407            | 37425            | 37415            | 37387            | 37378            | 37322            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.54            | 1.54             | 1.54             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                | 0°F<br>17.8°C      | TC    | 34086           | 34071            | 34203            | 34464            | 35418            | 35572            | 35545            | 35525            | 35521            | 35515            | 36615            | 36594            | 36561            | 36556            | 36523            | 38589            | 38577            | 38579            | 38583            | 38612            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.55            | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             |
|                | 5°F<br>15°C        | TC    | 35088           | 35120            | 35594            | 35757            | 36850            | 36757            | 36765            | 36769            | 36769            | 36950            | 37960            | 37957            | 37967            | 37968            | 37973            | 40228            | 40216            | 40217            | 40220            | 40242            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.56            | 1.56             | 1.56             | 1.56             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             |
|                | 14°F<br>10°C       | TC    | 34774           | 34762            | 34906            | 35211            | 36304            | 36520            | 36499            | 36482            | 36479            | 36460            | 37782            | 37764            | 37735            | 37730            | 37698            | 40158            | 40146            | 40116            | 40108            | 40046            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.53            | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                | 17°F<br>10°C       | TC    | 34714           | 34722            | 35148            | 35350            | 36489            | 36457            | 36460            | 36467            | 36468            | 36641            | 37619            | 37634            | 37658            | 37660            | 37669            | 40121            | 40109            | 40113            | 40121            | 40158            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.51            | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             | 1.50             | 1.51             | 1.51             | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                | 23°F<br>5°C        | TC    | 36291           | 36342            | 36933            | 37114            | 38328            | 38154            | 38164            | 38169            | 38170            | 38396            | 39499            | 39498            | 39510            | 39512            | 39519            | 42046            | 42033            | 42035            | 42040            | 42069            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 2.06            | 2.06             | 2.06             | 2.06             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                | 35°F<br>1.7°C      | TC    | 39960           | 39961            | 40039            | 40084            | 41114            | 41877            | 41872            | 41873            | 41875            | 41875            | 43223            | 43220            | 43216            | 43216            | 43221            | 45727            | 45716            | 45706            | 45713            | 45705            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 2.93            | 2.93             | 2.94             | 2.94             | 3.03             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             | 3.52             | 3.52             | 3.52             | 3.52             | 3.52             |
|                | 41°F<br>5°C        | TC    | 41409           | 41410            | 41524            | 41580            | 42760            | 43386            | 43381            | 43382            | 43382            | 43421            | 44774            | 44769            | 44765            | 44766            | 44771            | 47352            | 47340            | 47330            | 47336            | 47329            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 2.65            | 2.65             | 2.66             | 2.67             | 2.76             | 2.81             | 2.81             | 2.81             | 2.81             | 2.82             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             |
|                | 47°F<br>8.3°C      | TC    | 42854           | 42855            | 43020            | 43094            | 44420            | 44894            | 44887            | 44889            | 44889            | 44957            | 46323            | 46318            | 46315            | 46315            | 46318            | 48982            | 48969            | 48966            | 48964            | 48957            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 2.37            | 2.37             | 2.38             | 2.39             | 2.49             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             | 2.88             | 2.88             | 2.88             | 2.88             | 2.88             |
|                | 50°F<br>10°C       | TC    | 40647           | 41311            | 42691            | 42936            | 44581            | 43035            | 43061            | 43201            | 43256            | 44633            | 44730            | 44788            | 44814            | 44816            | 45019            | 47952            | 47976            | 48092            | 48105            | 48169            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.58            | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             | 2.57             |
|                | 59°F<br>15°C       | TC    | 36423           | 37300            | 38613            | 38846            | 40409            | 38646            | 38663            | 38855            | 38930            | 40455            | 40251            | 40294            | 40310            | 40312            | 40578            | 43325            | 43336            | 43421            | 43431            | 43473            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.35            | 2.36             | 2.36             | 2.36             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.39             | 2.39             | 2.39             | 2.39             | 2.38             |
|                | 68°F<br>20°C       | TC    | 32260           | 33300            | 34526            | 34743            | 36204            | 34276            | 34287            | 34555            | 34780            | 36245            | 35768            | 35797            | 35807            | 35808            | 36216            | 38621            | 38634            | 38696            | 38703            | 38731            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.13            | 2.14             | 2.16             | 2.16             | 2.17             | 2.15             | 2.15             | 2.16             | 2.16             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.20             | 2.20             | 2.19             | 2.19             | 2.19             |
|                | 77°F<br>25°C       | TC    | 28064           | 29139            | 30269            | 30470            | 31817            | 29889            | 29903            | 30247            | 30506            | 31854            | 31253            | 31289            | 31304            | 31340            | 31883            | 33849            | 33880            | 33956            | 33964            | 34001            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.94            | 1.95             | 1.96             | 1.96             | 1.97             | 1.95             | 1.95             | 1.95             | 1.96             | 1.97             | 1.96             | 1.96             | 1.96             | 1.96             | 1.97             | 1.99             | 1.99             | 1.98             | 1.98             | 1.98             |
|                | 82°F<br>27.8°C     | TC    | 27429           | 28592            | 29732            | 29934            | 31296            | 29240            | 29287            | 29768            | 29970            | 31331            | 30608            | 30648            | 30664            | 30712            | 31359            | 33199            | 33242            | 33325            | 33334            | 33374            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 2.14            | 2.15             | 2.16             | 2.16             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             |
|                | 86°F<br>30°C       | TC    | 29019           | 30364            | 31595            | 31813            | 33296            | 30936            | 31000            | 31633            | 31852            | 33322            | 32412            | 32450            | 32501            | 32530            | 33353            | 35198            | 35248            | 35331            | 35340            | 35377            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             |                  |

Table 24 – 37MUHA+ 45MULACooling Performance (48K - 60D) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
| 1050           | -22°F<br>30°C      | TC    | 36556           | 36539            | 37060            | 37214            | 38238            | 38141            | 38109            | 38085            | 38081            | 38050            | 39281            | 39231            | 39194            | 39189            | 39151            | 41434            | 41423            | 41337            | 41322            | 41235            |
|                |                    | S/T   | 0.80            | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.82            | 1.82             | 1.82             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | -13°F<br>25°C      | TC    | 39602           | 39584            | 40149            | 40315            | 41424            | 41319            | 41285            | 41259            | 41255            | 41221            | 42554            | 42501            | 42461            | 42455            | 42414            | 44887            | 44874            | 44782            | 44765            | 44671            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.89            | 1.89             | 1.89             | 1.89             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | -4°F<br>20°C       | TC    | 42648           | 42629            | 43237            | 43416            | 44611            | 44497            | 44461            | 44432            | 44428            | 44392            | 45828            | 45770            | 45727            | 45720            | 45677            | 48339            | 48326            | 48227            | 48209            | 48107            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.96            | 1.96             | 1.96             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.94             | 1.95             | 1.95             | 1.95             | 1.95             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                | 0°F<br>17.8°C      | TC    | 44064           | 44038            | 44855            | 45042            | 46279            | 45954            | 45903            | 45867            | 45862            | 46323            | 47304            | 47237            | 47178            | 47171            | 47149            | 49848            | 49837            | 49832            | 49839            | 49871            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.98            | 1.98             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 5°F<br>15°C        | TC    | 45327           | 45483            | 46523            | 46737            | 48178            | 47453            | 47465            | 47468            | 47517            | 48225            | 48970            | 48983            | 48993            | 48994            | 49059            | 51843            | 51827            | 51854            | 51860            | 51882            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.99            | 1.99             | 1.99             | 2.00             | 2.01             | 2.00             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.02             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                | 14°F<br>10°C       | TC    | 44956           | 44933            | 45850            | 46065            | 47494            | 47188            | 47146            | 47114            | 47109            | 47550            | 48804            | 48743            | 48694            | 48686            | 48637            | 51894            | 51878            | 51779            | 51761            | 51650            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.95            | 1.96             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.94             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.96             | 1.96             | 1.96             |
|                | 17°F<br>10°C       | TC    | 44727           | 44873            | 45910            | 46134            | 47633            | 46954            | 46973            | 46982            | 47021            | 47684            | 48556            | 48574            | 48594            | 48596            | 48656            | 51641            | 51626            | 51619            | 51628            | 51671            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.92            | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 23°F<br>5°C        | TC    | 46881           | 47083            | 48301            | 48539            | 50139            | 49255            | 49270            | 49275            | 49340            | 50192            | 50954            | 50971            | 50984            | 50986            | 51068            | 54179            | 54162            | 54201            | 54208            | 54239            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.62            | 2.63             | 2.63             | 2.64             | 2.65             | 2.64             | 2.64             | 2.64             | 2.64             | 2.65             | 2.66             | 2.66             | 2.66             | 2.66             | 2.66             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             |
|                | 35°F<br>1.7°C      | TC    | 51659           | 51661            | 51965            | 52110            | 53790            | 54074            | 54072            | 54076            | 54077            | 54221            | 55767            | 55763            | 55766            | 55767            | 55773            | 58907            | 58893            | 58890            | 58887            | 58892            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 3.74            | 3.74             | 3.77             | 3.78             | 3.94             | 3.96             | 3.96             | 3.96             | 3.96             | 3.98             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             | 4.50             | 4.50             | 4.50             | 4.49             | 4.50             |
|                | 41°F<br>5°C        | TC    | 53529           | 53529            | 53955            | 54330            | 55936            | 56018            | 56017            | 56020            | 56020            | 56217            | 57766            | 57762            | 57765            | 57766            | 57770            | 61007            | 60992            | 60988            | 60985            | 60992            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 3.38            | 3.38             | 3.41             | 3.45             | 3.59             | 3.59             | 3.59             | 3.59             | 3.59             | 3.61             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             | 4.09             | 4.09             | 4.09             | 4.09             | 4.09             |
|                | 47°F<br>8.3°C      | TC    | 55397           | 55434            | 56177            | 56428            | 58098            | 57966            | 57964            | 57965            | 57964            | 58233            | 59766            | 59760            | 59765            | 59764            | 59764            | 63112            | 63096            | 63091            | 63088            | 63094            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 3.03            | 3.03             | 3.09             | 3.11             | 3.24             | 3.23             | 3.23             | 3.23             | 3.23             | 3.25             | 3.38             | 3.38             | 3.38             | 3.38             | 3.38             | 3.68             | 3.68             | 3.68             | 3.68             | 3.68             |
|                | 50°F<br>10°C       | TC    | 52586           | 54034            | 55857            | 56181            | 58359            | 55555            | 55585            | 55970            | 56146            | 58415            | 57722            | 57797            | 57828            | 57831            | 58387            | 61701            | 61864            | 62023            | 62041            | 62119            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 3.29            | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             |
|                | 59°F<br>15°C       | TC    | 47151           | 48805            | 50537            | 50845            | 52914            | 49888            | 49956            | 50523            | 50899            | 52966            | 51946            | 51999            | 52017            | 52092            | 53010            | 55780            | 55891            | 56003            | 56015            | 56062            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 3.01            | 3.02             | 3.02             | 3.02             | 3.03             | 3.02             | 3.02             | 3.02             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.05             | 3.05             | 3.05             | 3.05             | 3.05             |
|                | 68°F<br>20°C       | TC    | 41730           | 43512            | 45125            | 45412            | 47339            | 44178            | 44278            | 45174            | 45461            | 47386            | 46088            | 46123            | 46206            | 46246            | 47425            | 49660            | 49752            | 49830            | 49838            | 49864            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.73            | 2.74             | 2.76             | 2.76             | 2.78             | 2.75             | 2.75             | 2.76             | 2.76             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.81             | 2.81             | 2.80             | 2.80             | 2.80             |
|                | 77°F<br>25°C       | TC    | 36319           | 38068            | 39558            | 39821            | 41600            | 38503            | 38625            | 39601            | 39865            | 41642            | 40247            | 40292            | 40395            | 40440            | 41677            | 43468            | 43600            | 43701            | 43711            | 43752            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.48            | 2.49             | 2.50             | 2.50             | 2.52             | 2.50             | 2.50             | 2.50             | 2.50             | 2.52             | 2.51             | 2.51             | 2.51             | 2.51             | 2.52             | 2.54             | 2.54             | 2.53             | 2.53             | 2.53             |
|                | 82°F<br>27.8°C     | TC    | 35525           | 37338            | 38844            | 39107            | 40898            | 37645            | 37790            | 38878            | 39151            | 40941            | 39396            | 39446            | 39569            | 39617            | 40977            | 42596            | 42756            | 42867            | 42878            | 42925            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.74            | 2.75             | 2.76             | 2.77             | 2.78             | 2.76             | 2.76             | 2.76             | 2.77             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.80             | 2.80             | 2.80             | 2.79             | 2.79             |
|                | 86°F<br>30°C       | TC    | 37787           | 39674            | 41296            | 41584            | 43521            | 39850            | 40033            | 41342            | 41632            | 43566            | 41738            | 41786            | 41939            | 42000            | 43603            | 45186            | 45361            | 45468            | 45479            | 45522            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 3.44            | 3.46             | 3.48             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 25 – 37MUHA+ 45MULA Heating Performance (48K - 60D)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 790              | 1050                                               | 25427                               | 24919            | 24794            | 24695              | 24473              | 6.23                   | 6.28             | 6.29             | 6.31               | 6.33               |
|                  | -13°F (-25.0°C)                                    | 30240                               | 29636            | 29487            | 29369              | 29105              | 6.49                   | 6.54             | 6.56             | 6.57               | 6.60               |
|                  | -4°F (-20.0°C)                                     | 34728                               | 34034            | 33863            | 33728              | 33424              | 6.59                   | 6.64             | 6.65             | 6.67               | 6.69               |
|                  | 0°F (-17.8°C)                                      | 36071                               | 35349            | 35173            | 35032              | 34717              | 6.88                   | 6.94             | 6.95             | 6.97               | 6.99               |
|                  | 5°F (-15.0°C)                                      | 37749                               | 36994            | 36809            | 36662              | 36332              | 7.25                   | 7.31             | 7.33             | 7.34               | 7.37               |
|                  | 14°F (-10.0°C)                                     | 41094                               | 40273            | 40071            | 39911              | 39552              | 7.03                   | 7.09             | 7.10             | 7.12               | 7.15               |
|                  | 17°F (-8.3°C)                                      | 42210                               | 41365            | 41159            | 40994              | 40625              | 6.96                   | 7.02             | 7.03             | 7.04               | 7.07               |
|                  | 22°F (-5.6°C)                                      | 39145                               | 38362            | 38170            | 38017              | 37675              | 6.64                   | 6.69             | 6.70             | 6.72               | 6.74               |
|                  | 27°F (-2.8°C)                                      | 36080                               | 35358            | 35181            | 35041              | 34725              | 6.31                   | 6.36             | 6.38             | 6.39               | 6.42               |
|                  | 32°F (0.0°C)                                       | 33015                               | 32355            | 32193            | 32064              | 31775              | 5.99                   | 6.04             | 6.05             | 6.06               | 6.09               |
|                  | 35°F (1.7°C)                                       | 31176                               | 30552            | 30400            | 30278              | 30006              | 5.80                   | 5.84             | 5.85             | 5.87               | 5.89               |
|                  | 37°F (2.8°C)                                       | 33019                               | 32359            | 32197            | 32068              | 31780              | 5.67                   | 5.72             | 5.73             | 5.74               | 5.77               |
|                  | 42°F (5.6°C)                                       | 37628                               | 36876            | 36691            | 36544              | 36215              | 5.37                   | 5.42             | 5.43             | 5.44               | 5.46               |
|                  | 44.6°F (7.0°C)                                     | 39472                               | 38682            | 38489            | 38335              | 37990              | 5.25                   | 5.29             | 5.30             | 5.32               | 5.34               |
|                  | 47°F (8.3°C)                                       | 42237                               | 41392            | 41185            | 41020              | 40651              | 5.07                   | 5.11             | 5.12             | 5.13               | 5.15               |
|                  | 52°F (11.1°C)                                      | 39039                               | 38258            | 38067            | 37915              | 37573              | 4.47                   | 4.50             | 4.51             | 4.52               | 4.54               |
|                  | 57F (13.9°C)                                       | 35841                               | 35124            | 34949            | 34809              | 34495              | 3.87                   | 3.90             | 3.90             | 3.91               | 3.93               |
|                  | 59°F (15.0°C)                                      | 34562                               | 33871            | 33701            | 33566              | 33264              | 3.62                   | 3.65             | 3.66             | 3.67               | 3.68               |
|                  | 62°F (16.7°C)                                      | 32643                               | 31990            | 31830            | 31703              | 31418              | 3.26                   | 3.29             | 3.30             | 3.30               | 3.32               |
|                  | 64.4°F (18.0°C)                                    | 31108                               | 30486            | 30334            | 30212              | 29940              | 2.97                   | 3.00             | 3.00             | 3.01               | 3.02               |
|                  | 69.8°F (21.0°C)                                    | 27654                               | 27101            | 26966            | 26858              | 26616              | 2.32                   | 2.34             | 2.35             | 2.35               | 2.36               |
|                  | 75.2°F (24.0°C)                                    | 24201                               | 23717            | 23598            | 23504              | 23292              | 1.67                   | 1.69             | 1.69             | 1.69               | 1.70               |
| 1050             | -22°F (-30.0°C)                                    | 32811                               | 32155            | 31994            | 31866              | 31580              | 6.29                   | 6.35             | 6.36             | 6.37               | 6.40               |
|                  | -13°F (-25.0°C)                                    | 39022                               | 38242            | 38051            | 37898              | 37557              | 6.56                   | 6.61             | 6.62             | 6.64               | 6.66               |
|                  | -4°F (-20.0°C)                                     | 44813                               | 43917            | 43697            | 43523              | 43131              | 6.65                   | 6.71             | 6.72             | 6.73               | 6.76               |
|                  | 0°F (-17.8°C)                                      | 46546                               | 45615            | 45387            | 45205              | 44798              | 6.95                   | 7.01             | 7.02             | 7.04               | 7.07               |
|                  | 5°F (-15.0°C)                                      | 48711                               | 47737            | 47498            | 47308              | 46883              | 7.33                   | 7.39             | 7.40             | 7.42               | 7.45               |
|                  | 14°F (-10.0°C)                                     | 53028                               | 51968            | 51708            | 51501              | 51038              | 7.10                   | 7.16             | 7.18             | 7.19               | 7.22               |
|                  | 17°F (-8.3°C)                                      | 54467                               | 53378            | 53111            | 52899              | 52423              | 7.03                   | 7.09             | 7.10             | 7.12               | 7.14               |
|                  | 22°F (-5.6°C)                                      | 50512                               | 49502            | 49255            | 49058              | 48616              | 6.70                   | 6.76             | 6.77             | 6.78               | 6.81               |
|                  | 27°F (-2.8°C)                                      | 46557                               | 45626            | 45398            | 45217              | 44810              | 6.38                   | 6.43             | 6.44             | 6.45               | 6.48               |
|                  | 32°F (0.0°C)                                       | 42602                               | 41750            | 41542            | 41376              | 41003              | 6.05                   | 6.10             | 6.11             | 6.12               | 6.15               |
|                  | 35°F (1.7°C)                                       | 40229                               | 39425            | 39228            | 39071              | 38719              | 5.85                   | 5.90             | 5.91             | 5.92               | 5.95               |
|                  | 37°F (2.8°C)                                       | 42608                               | 41756            | 41547            | 41381              | 41009              | 5.73                   | 5.78             | 5.79             | 5.80               | 5.82               |
|                  | 42°F (5.6°C)                                       | 48555                               | 47584            | 47346            | 47157              | 46733              | 5.43                   | 5.47             | 5.48             | 5.49               | 5.51               |
|                  | 44.6°F (7.0°C)                                     | 50934                               | 49916            | 49666            | 49467              | 49022              | 5.30                   | 5.35             | 5.36             | 5.37               | 5.39               |
|                  | 47°F (8.3°C)                                       | 54502                               | 53412            | 53145            | 52933              | 52456              | 5.12                   | 5.16             | 5.17             | 5.18               | 5.20               |
|                  | 52°F (11.1°C)                                      | 50376                               | 49368            | 49122            | 48925              | 48485              | 4.51                   | 4.55             | 4.56             | 4.57               | 4.59               |
|                  | 57F (13.9°C)                                       | 46249                               | 45324            | 45098            | 44917              | 44513              | 3.90                   | 3.94             | 3.94             | 3.95               | 3.97               |
|                  | 59°F (15.0°C)                                      | 44599                               | 43707            | 43488            | 43314              | 42924              | 3.66                   | 3.69             | 3.70             | 3.71               | 3.72               |
|                  | 62°F (16.7°C)                                      | 42123                               | 41280            | 41074            | 40910              | 40541              | 3.30                   | 3.32             | 3.33             | 3.34               | 3.35               |
|                  | 64.4°F (18.0°C)                                    | 40142                               | 39339            | 39142            | 38986              | 38635              | 3.00                   | 3.03             | 3.04             | 3.04               | 3.05               |
|                  | 69.8°F (21.0°C)                                    | 35685                               | 34972            | 34797            | 34658              | 34346              | 2.35                   | 2.37             | 2.37             | 2.38               | 2.39               |
|                  | 75.2°F (24.0°C)                                    | 31229                               | 30604            | 30451            | 30329              | 30056              | 1.69                   | 1.70             | 1.71             | 1.71               | 1.72               |

Table 26 – 37MUHA+ 45MULACooling Performance (54K - 60C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB<br>ID DB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |                | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 785            | -22°F<br>30°C      | TC             | 35805            | 35795            | 36003            | 37063            | 37394            | 37374            | 37357            | 37354            | 37328            | 38511            | 38491            | 38465            | 38461            | 38434            | 40624            | 40613            | 40583            | 40573            | 40512            | 35805            |
|                |                    | S/T            | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             | 0.87             |
|                |                    | PI             | 4.48             | 4.48             | 4.47             | 4.45             | 4.44             | 4.45             | 4.45             | 4.45             | 4.45             | 4.44             | 4.44             | 4.44             | 4.44             | 4.44             | 4.45             | 4.45             | 4.45             | 4.45             | 4.46             | 4.48             |
|                | -13°F<br>25°C      | TC             | 38789            | 38778            | 39003            | 40151            | 40511            | 40488            | 40470            | 40467            | 40439            | 41720            | 41698            | 41670            | 41666            | 41637            | 44009            | 43997            | 43965            | 43954            | 43888            | 38789            |
|                |                    | S/T            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.88             |
|                |                    | PI             | 4.64             | 4.64             | 4.64             | 4.62             | 4.61             | 4.61             | 4.61             | 4.61             | 4.61             | 4.60             | 4.60             | 4.60             | 4.60             | 4.60             | 4.62             | 4.62             | 4.62             | 4.62             | 4.62             | 4.64             |
|                | -4°F<br>20°C       | TC             | 41772            | 41761            | 42003            | 43240            | 43627            | 43603            | 43583            | 43580            | 43550            | 44929            | 44906            | 44876            | 44871            | 44840            | 47395            | 47382            | 47347            | 47335            | 47264            | 41772            |
|                |                    | S/T            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.88             |
|                |                    | PI             | 4.81             | 4.81             | 4.81             | 4.78             | 4.77             | 4.78             | 4.78             | 4.78             | 4.78             | 4.76             | 4.77             | 4.77             | 4.77             | 4.77             | 4.78             | 4.78             | 4.78             | 4.78             | 4.79             | 4.81             |
|                | 0°F<br>17.8°C      | TC             | 43147            | 43314            | 43644            | 44853            | 45048            | 45014            | 44988            | 44984            | 44976            | 46369            | 46343            | 46300            | 46294            | 46253            | 48868            | 48854            | 48856            | 48862            | 48898            | 43147            |
|                |                    | S/T            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 0.89             |
|                |                    | PI             | 4.85             | 4.85             | 4.84             | 4.84             | 4.83             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 4.84             | 4.88             | 4.88             | 4.88             | 4.88             | 4.88             | 4.85             |
|                | 5°F<br>15°C        | TC             | 44476            | 45075            | 45282            | 46667            | 46549            | 46558            | 46563            | 46564            | 46794            | 48072            | 48068            | 48081            | 48082            | 48088            | 50945            | 50930            | 50930            | 50934            | 50962            | 44476            |
|                |                    | S/T            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 0.90             |
|                |                    | PI             | 4.89             | 4.89             | 4.89             | 4.91             | 4.90             | 4.90             | 4.90             | 4.90             | 4.91             | 4.93             | 4.93             | 4.93             | 4.93             | 4.93             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 4.89             |
|                | 14°F<br>10°C       | TC             | 44768            | 44954            | 45347            | 46754            | 47033            | 47006            | 46983            | 46980            | 46955            | 48658            | 48635            | 48598            | 48591            | 48550            | 51718            | 51702            | 51665            | 51653            | 51574            | 44768            |
|                |                    | S/T            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             | 0.89             |
|                |                    | PI             | 4.55             | 4.55             | 4.55             | 4.54             | 4.53             | 4.53             | 4.53             | 4.53             | 4.54             | 4.52             | 4.52             | 4.52             | 4.52             | 4.53             | 4.54             | 4.54             | 4.54             | 4.54             | 4.54             | 4.55             |
|                | 17°F<br>10°C       | TC             | 44968            | 45519            | 45782            | 47256            | 47214            | 47218            | 47228            | 47230            | 47453            | 48720            | 48739            | 48770            | 48773            | 48785            | 51960            | 51944            | 51950            | 51960            | 52008            | 44968            |
|                |                    | S/T            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             | 0.89             |
|                |                    | PI             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.39             | 4.42             | 4.42             | 4.42             | 4.42             | 4.42             | 4.39             |
|                | 23°F<br>5°C        | TC             | 44235            | 44955            | 45175            | 46652            | 46441            | 46453            | 46459            | 46460            | 46735            | 48079            | 48077            | 48092            | 48094            | 48102            | 51178            | 51163            | 51164            | 51171            | 51206            | 44235            |
|                |                    | S/T            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             | 0.91             |
|                |                    | PI             | 4.51             | 4.51             | 4.52             | 4.54             | 4.53             | 4.53             | 4.53             | 4.53             | 4.54             | 4.56             | 4.56             | 4.56             | 4.56             | 4.56             | 4.64             | 4.64             | 4.64             | 4.64             | 4.64             | 4.51             |
|                | 35°F<br>1.7°C      | TC             | 43216            | 43300            | 43348            | 44462            | 45288            | 45282            | 45284            | 45285            | 45286            | 46744            | 46740            | 46736            | 46735            | 46741            | 49451            | 49439            | 49429            | 49436            | 49427            | 43216            |
|                |                    | S/T            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             | 0.85             |
|                |                    | PI             | 4.44             | 4.46             | 4.46             | 4.60             | 4.71             | 4.71             | 4.71             | 4.71             | 4.71             | 4.91             | 4.91             | 4.91             | 4.91             | 4.91             | 5.34             | 5.34             | 5.34             | 5.34             | 5.34             | 4.44             |
|                | 41°F<br>5°C        | TC             | 43006            | 43125            | 43184            | 44409            | 45059            | 45053            | 45055            | 45055            | 45095            | 46500            | 46495            | 46491            | 46492            | 46497            | 49177            | 49166            | 49155            | 49161            | 49154            | 43006            |
|                |                    | S/T            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             | 0.86             |
|                |                    | PI             | 4.46             | 4.48             | 4.49             | 4.64             | 4.73             | 4.73             | 4.73             | 4.73             | 4.74             | 4.95             | 4.95             | 4.95             | 4.95             | 4.95             | 5.39             | 5.39             | 5.39             | 5.39             | 5.39             | 4.46             |
|                | 47°F<br>8.3°C      | TC             | 42792            | 42957            | 43032            | 44356            | 44828            | 44822            | 44823            | 44823            | 44891            | 46256            | 46251            | 46247            | 46248            | 46251            | 48910            | 48898            | 48894            | 48893            | 48886            | 42792            |
|                |                    | S/T            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             | 0.87             |
|                |                    | PI             | 4.47             | 4.49             | 4.50             | 4.69             | 4.76             | 4.76             | 4.76             | 4.76             | 4.77             | 4.99             | 4.99             | 4.98             | 4.99             | 4.99             | 5.44             | 5.44             | 5.44             | 5.44             | 5.43             | 4.47             |
|                | 50°F<br>10°C       | TC             | 41845            | 43243            | 43491            | 45157            | 43592            | 43617            | 43759            | 43815            | 45210            | 45308            | 45367            | 45393            | 45396            | 45601            | 48572            | 48596            | 48714            | 48727            | 48792            | 41845            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             | 1.00             |
|                |                    | PI             | 4.75             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.74             | 4.73             | 4.73             | 4.73             | 4.75             |
|                | 59°F<br>15°C       | TC             | 39631            | 41026            | 41273            | 42934            | 41061            | 41079            | 41283            | 41363            | 42983            | 42766            | 42812            | 42829            | 42831            | 43114            | 46032            | 46044            | 46135            | 46145            | 46190            | 39631            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             | 1.00             |
|                |                    | PI             | 3.99             | 4.00             | 4.00             | 4.01             | 4.00             | 4.00             | 4.00             | 4.00             | 4.01             | 4.01             | 4.01             | 4.01             | 4.01             | 4.01             | 4.04             | 4.04             | 4.04             | 4.03             | 4.03             | 3.99             |
|                | 68°F<br>20°C       | TC             | 37447            | 38825            | 39070            | 40712            | 38544            | 38556            | 38858            | 39111            | 40758            | 40221            | 40255            | 40266            | 40267            | 40726            | 43431            | 43445            | 43515            | 43523            | 43554            | 37447            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             | 1.00             |
|                |                    | PI             | 3.25             | 3.26             | 3.27             | 3.29             | 3.26             | 3.26             | 3.26             | 3.27             | 3.29             | 3.28             | 3.28             | 3.28             | 3.28             | 3.29             | 3.33             | 3.32             | 3.32             | 3.32             | 3.32             | 3.25             |
|                | 77°F<br>25°C       | TC             | 35095            | 36457            | 36699            | 38321            | 35998            | 36015            | 36429            | 36742            | 38365            | 37642            | 37685            | 37702            | 37746            | 38400            | 40768            | 40805            | 40896            | 40906            | 40951            | 35095            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             |
|                |                    | PI             | 2.53             | 2.54             | 2.54             | 2.55             | 2.54             | 2.54             | 2.54             | 2.54             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.58             | 2.58             | 2.58             | 2.58             | 2.57             | 2.53             |
|                | 82°F<br>27.8°C     | TC             | 35077            | 36475            | 36724            | 38394            | 35872            | 35930            | 36519            | 36768            | 38437            | 37550            | 37600            | 37619            | 37678            | 38472            | 40730            | 40782            | 40883            | 40895            | 40943            | 35077            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             | 1.00             |
|                |                    | PI             | 2.59             | 2.60             | 2.60             | 2.62             | 2.60             | 2.60             | 2.60             | 2.60             | 2.62             | 2.61             | 2.61             | 2.61             | 2.61             | 2.62             | 2.64             | 2.64             | 2.64             | 2.64             | 2.63             | 2.59             |
|                | 86°F<br>30°C       | TC             | 36662            | 38150            | 38413            | 40203            | 37353            | 37431            | 38195            | 38459            | 40235            | 39135            | 39181            | 39243            | 39279            | 40272            | 42499            | 42560            | 42660            | 42671            | 42715            | 36662            |
|                |                    | S/T            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             | 1.00             |
|                |                    | PI             | 3.22             | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 26 – 37MUHA+ 45MULACooling Performance (54K - 60C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 1050           | -22°F<br>30°C      | TC    | 46419            | 47082            | 47277            | 48578            | 48454            | 48414            | 48384            | 48379            | 48339            | 49903            | 49840            | 49793            | 49786            | 49738            | 52638            | 52624            | 52515            | 52496            | 52385            | 46419            |
|                |                    | S/T   | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 0.91             |
|                |                    | PI    | 5.73             | 5.71             | 5.71             | 5.70             | 5.69             | 5.69             | 5.70             | 5.70             | 5.70             | 5.68             | 5.69             | 5.69             | 5.69             | 5.69             | 5.72             | 5.72             | 5.72             | 5.72             | 5.72             | 5.73             |
|                | -13°F<br>25°C      | TC    | 50288            | 51005            | 51217            | 52626            | 52492            | 52449            | 52415            | 52411            | 52367            | 54061            | 53993            | 53942            | 53935            | 53883            | 57024            | 57009            | 56892            | 56870            | 56750            | 50288            |
|                |                    | S/T   | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             | 0.91             |
|                |                    | PI    | 5.94             | 5.93             | 5.92             | 5.91             | 5.90             | 5.91             | 5.91             | 5.91             | 5.91             | 5.89             | 5.90             | 5.90             | 5.90             | 5.90             | 5.93             | 5.93             | 5.93             | 5.93             | 5.94             | 5.94             |
|                | -4°F<br>20°C       | TC    | 54156            | 54929            | 55156            | 56674            | 56530            | 56483            | 56447            | 56442            | 56395            | 58220            | 58147            | 58092            | 58084            | 58028            | 61411            | 61394            | 61268            | 61245            | 61116            | 54156            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 0.92             |
|                |                    | PI    | 6.15             | 6.14             | 6.13             | 6.12             | 6.11             | 6.12             | 6.12             | 6.12             | 6.12             | 6.10             | 6.11             | 6.11             | 6.11             | 6.11             | 6.14             | 6.14             | 6.15             | 6.15             | 6.15             | 6.15             |
|                | 0°F<br>17.8°C      | TC    | 55946            | 56984            | 57222            | 58793            | 58380            | 58315            | 58270            | 58263            | 58849            | 60096            | 60010            | 59936            | 59927            | 59898            | 63328            | 63313            | 63307            | 63316            | 63357            | 55946            |
|                |                    | S/T   | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 0.93             |
|                |                    | PI    | 6.20             | 6.20             | 6.20             | 6.20             | 6.19             | 6.19             | 6.20             | 6.20             | 6.20             | 6.20             | 6.20             | 6.20             | 6.21             | 6.21             | 6.21             | 6.27             | 6.27             | 6.27             | 6.28             | 6.20             |
|                | 5°F<br>15°C        | TC    | 57782            | 59103            | 59376            | 61205            | 60285            | 60300            | 60304            | 60366            | 61266            | 62212            | 62228            | 62241            | 62243            | 62325            | 65862            | 65841            | 65876            | 65883            | 65912            | 57782            |
|                |                    | S/T   | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 0.94             |
|                |                    | PI    | 6.25             | 6.26             | 6.26             | 6.30             | 6.28             | 6.28             | 6.28             | 6.28             | 6.30             | 6.32             | 6.32             | 6.32             | 6.32             | 6.32             | 6.33             | 6.46             | 6.46             | 6.46             | 6.46             | 6.46             |
|                | 14°F<br>10°C       | TC    | 58052            | 59236            | 59514            | 61360            | 60964            | 60911            | 60869            | 60862            | 61432            | 63053            | 62974            | 62910            | 62900            | 62836            | 67045            | 67024            | 66896            | 66873            | 66730            | 58052            |
|                |                    | S/T   | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             | 0.93             |
|                |                    | PI    | 5.82             | 5.82             | 5.81             | 5.80             | 5.80             | 5.80             | 5.80             | 5.80             | 5.80             | 5.79             | 5.80             | 5.80             | 5.80             | 5.80             | 5.82             | 5.82             | 5.82             | 5.83             | 5.83             | 5.82             |
|                | 17°F<br>10°C       | TC    | 58299            | 59646            | 59937            | 61884            | 61002            | 61027            | 61038            | 61090            | 61951            | 63084            | 63108            | 63133            | 63136            | 63214            | 67091            | 67073            | 67063            | 67075            | 67131            | 58299            |
|                |                    | S/T   | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             | 0.93             |
|                |                    | PI    | 5.62             | 5.62             | 5.62             | 5.62             | 5.61             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.62             | 5.63             | 5.63             | 5.67             | 5.67             | 5.67             | 5.67             | 5.62             |
|                | 23°F<br>5°C        | TC    | 57491            | 58978            | 59269            | 61222            | 60143            | 60161            | 60168            | 60247            | 61288            | 62217            | 62239            | 62255            | 62257            | 62357            | 66156            | 66135            | 66182            | 66191            | 66230            | 57491            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             | 0.95             |
|                |                    | PI    | 5.77             | 5.79             | 5.79             | 5.83             | 5.81             | 5.81             | 5.81             | 5.81             | 5.83             | 5.85             | 5.85             | 5.85             | 5.85             | 5.85             | 5.96             | 5.96             | 5.96             | 5.96             | 5.96             | 5.77             |
|                | 35°F<br>1.7°C      | TC    | 56046            | 56375            | 56533            | 58356            | 58664            | 58661            | 58666            | 58667            | 58823            | 60500            | 60496            | 60499            | 60501            | 60507            | 63907            | 63891            | 63888            | 63886            | 63891            | 56046            |
|                |                    | S/T   | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             | 0.88             |
|                |                    | PI    | 5.69             | 5.73             | 5.75             | 5.99             | 6.03             | 6.03             | 6.03             | 6.03             | 6.06             | 6.30             | 6.30             | 6.30             | 6.30             | 6.30             | 6.85             | 6.84             | 6.84             | 6.84             | 6.84             | 5.69             |
|                | 41°F<br>5°C        | TC    | 55770            | 56214            | 56605            | 58278            | 58363            | 58362            | 58365            | 58365            | 58570            | 60184            | 60180            | 60183            | 60184            | 60188            | 63561            | 63545            | 63541            | 63538            | 63545            | 55770            |
|                |                    | S/T   | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             | 0.89             |
|                |                    | PI    | 5.70             | 5.76             | 5.82             | 6.05             | 6.07             | 6.07             | 6.07             | 6.07             | 6.10             | 6.34             | 6.34             | 6.34             | 6.34             | 6.34             | 6.91             | 6.91             | 6.91             | 6.91             | 6.91             | 5.70             |
|                | 47°F<br>8.3°C      | TC    | 55529            | 56274            | 56525            | 58197            | 58065            | 58063            | 58065            | 58064            | 58333            | 59868            | 59863            | 59867            | 59866            | 59866            | 63220            | 63204            | 63199            | 63196            | 63203            | 55529            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             | 0.90             |
|                |                    | PI    | 5.74             | 5.84             | 5.88             | 6.13             | 6.11             | 6.11             | 6.11             | 6.11             | 6.15             | 6.39             | 6.39             | 6.39             | 6.39             | 6.39             | 6.97             | 6.97             | 6.96             | 6.96             | 6.97             | 5.74             |
|                | 50°F<br>10°C       | TC    | 54906            | 56759            | 57088            | 59301            | 56452            | 56483            | 56873            | 57052            | 59357            | 58654            | 58730            | 58761            | 58765            | 59329            | 62697            | 62862            | 63024            | 63043            | 63122            | 54906            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             | 1.00             |
|                |                    | PI    | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.08             | 6.07             | 6.07             | 6.07             | 6.07             | 6.07             | 6.08             |
|                | 59°F<br>15°C       | TC    | 52020            | 53866            | 54194            | 56399            | 53174            | 53247            | 53851            | 54252            | 56455            | 55368            | 55424            | 55443            | 55523            | 56501            | 59454            | 59573            | 59691            | 59705            | 59755            | 52020            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             | 1.00             |
|                |                    | PI    | 5.12             | 5.13             | 5.13             | 5.15             | 5.13             | 5.13             | 5.13             | 5.13             | 5.15             | 5.14             | 5.14             | 5.14             | 5.14             | 5.15             | 5.18             | 5.18             | 5.17             | 5.17             | 5.17             | 5.12             |
|                | 68°F<br>20°C       | TC    | 49085            | 50905            | 51229            | 53403            | 49837            | 49949            | 50961            | 51285            | 53456            | 51992            | 52031            | 52124            | 52170            | 53500            | 56021            | 56125            | 56213            | 56222            | 56252            | 49085            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             | 1.00             |
|                |                    | PI    | 4.17             | 4.19             | 4.19             | 4.22             | 4.18             | 4.18             | 4.19             | 4.20             | 4.22             | 4.21             | 4.21             | 4.21             | 4.21             | 4.22             | 4.27             | 4.26             | 4.26             | 4.26             | 4.26             | 4.17             |
|                | 77°F<br>25°C       | TC    | 45994            | 47795            | 48113            | 50263            | 46520            | 46668            | 47847            | 48166            | 50313            | 48627            | 48682            | 48806            | 48860            | 50355            | 52519            | 52678            | 52800            | 52813            | 52862            | 45994            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             | 1.00             |
|                |                    | PI    | 3.25             | 3.26             | 3.26             | 3.28             | 3.25             | 3.25             | 3.26             | 3.26             | 3.28             | 3.27             | 3.27             | 3.27             | 3.27             | 3.28             | 3.31             | 3.31             | 3.30             | 3.30             | 3.30             | 3.25             |
|                | 82°F<br>27.8°C     | TC    | 45952            | 47806            | 48130            | 50334            | 46330            | 46509            | 47847            | 48184            | 50387            | 48485            | 48546            | 48697            | 48757            | 50431            | 52423            | 52620            | 52757            | 52771            | 52828            | 45952            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             | 1.00             |
|                |                    | PI    | 3.33             | 3.34             | 3.34             | 3.36             | 3.33             | 3.33             | 3.34             | 3.34             | 3.36             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             | 3.36             | 3.39             | 3.38             | 3.38             | 3.38             | 3.33             |
|                | 86°F<br>30°C       | TC    | 48056            | 50021            | 50370            | 52716            | 48269            | 48491            | 50076            | 50427            | 52770            | 50556            | 50614            | 50800            | 50873            | 52816            | 54733            | 54944            | 55075            | 55088            | 55139            | 48056            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             | 1.00             |
|                |                    | PI    | 4.13             | 4.15             | 4.16             | 4.18             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 27 – 37MUHA+ 45MULAH Heating Performance (54K - 60C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 785              | -22°F (-30.0°C)                                    | 23142                               | 22679            | 22565            | 22475              | 22273              | 6.32                   | 6.37             | 6.38             | 6.39               | 6.42               |
|                  | -13°F (-25.0°C)                                    | 29930                               | 29331            | 29185            | 29068              | 28806              | 7.05                   | 7.11             | 7.12             | 7.14               | 7.17               |
|                  | -4°F (-20.0°C)                                     | 33433                               | 32765            | 32601            | 32471              | 32178              | 6.73                   | 6.78             | 6.80             | 6.81               | 6.84               |
|                  | 0°F (-17.8°C)                                      | 33866                               | 33188            | 33023            | 32890              | 32594              | 6.74                   | 6.79             | 6.81             | 6.82               | 6.85               |
|                  | 5°F (-15.0°C)                                      | 34406                               | 33718            | 33550            | 33415              | 33115              | 6.75                   | 6.80             | 6.82             | 6.83               | 6.86               |
|                  | 14°F (-10.0°C)                                     | 37022                               | 36281            | 36100            | 35955              | 35632              | 6.72                   | 6.77             | 6.79             | 6.80               | 6.83               |
|                  | 17°F (-8.3°C)                                      | 37893                               | 37135            | 36950            | 36802              | 36471              | 6.71                   | 6.76             | 6.78             | 6.79               | 6.82               |
|                  | 22°F (-5.6°C)                                      | 38141                               | 37378            | 37191            | 37043              | 36709              | 6.49                   | 6.54             | 6.56             | 6.57               | 6.59               |
|                  | 27°F (-2.8°C)                                      | 38389                               | 37621            | 37433            | 37283              | 36947              | 6.27                   | 6.32             | 6.34             | 6.35               | 6.37               |
|                  | 32°F (0.0°C)                                       | 38636                               | 37864            | 37674            | 37524              | 37186              | 6.05                   | 6.10             | 6.12             | 6.13               | 6.15               |
|                  | 35°F (1.7°C)                                       | 38785                               | 38009            | 37819            | 37668              | 37329              | 5.92                   | 5.97             | 5.98             | 6.00               | 6.02               |
|                  | 37°F (2.8°C)                                       | 40412                               | 39604            | 39406            | 39248              | 38895              | 5.96                   | 6.01             | 6.02             | 6.03               | 6.06               |
|                  | 42°F (5.6°C)                                       | 44481                               | 43591            | 43373            | 43200              | 42811              | 6.05                   | 6.10             | 6.11             | 6.12               | 6.15               |
|                  | 44.6°F (7.0°C)                                     | 46108                               | 45186            | 44960            | 44780              | 44377              | 6.09                   | 6.14             | 6.15             | 6.16               | 6.19               |
|                  | 47°F (8.3°C)                                       | 48550                               | 47579            | 47341            | 47151              | 46727              | 6.14                   | 6.19             | 6.20             | 6.22               | 6.24               |
|                  | 52°F (11.1°C)                                      | 45721                               | 44806            | 44582            | 44404              | 44004              | 5.45                   | 5.49             | 5.50             | 5.51               | 5.53               |
|                  | 57F (13.9°C)                                       | 42892                               | 42034            | 41824            | 41656              | 41281              | 4.75                   | 4.79             | 4.80             | 4.81               | 4.83               |
|                  | 59°F (15.0°C)                                      | 41760                               | 40925            | 40720            | 40557              | 40192              | 4.47                   | 4.51             | 4.52             | 4.53               | 4.55               |
|                  | 62°F (16.7°C)                                      | 40062                               | 39261            | 39065            | 38909              | 38558              | 4.06                   | 4.09             | 4.10             | 4.10               | 4.12               |
|                  | 64.4°F (18.0°C)                                    | 38705                               | 37930            | 37741            | 37590              | 37252              | 3.72                   | 3.75             | 3.76             | 3.77               | 3.78               |
|                  | 69.8°F (21.0°C)                                    | 33642                               | 32969            | 32804            | 32673              | 32379              | 2.97                   | 2.99             | 3.00             | 3.01               | 3.02               |
|                  | 75.2°F (24.0°C)                                    | 32956                               | 32297            | 32136            | 32007              | 31719              | 2.22                   | 2.24             | 2.24             | 2.25               | 2.26               |
| 1047             | -22°F (-30.0°C)                                    | 29957                               | 29358            | 29211            | 29094              | 28832              | 6.38                   | 6.43             | 6.45             | 6.46               | 6.49               |
|                  | -13°F (-25.0°C)                                    | 38744                               | 37969            | 37780            | 37628              | 37290              | 7.12                   | 7.18             | 7.19             | 7.21               | 7.24               |
|                  | -4°F (-20.0°C)                                     | 43280                               | 42414            | 42202            | 42033              | 41655              | 6.80                   | 6.85             | 6.87             | 6.88               | 6.91               |
|                  | 0°F (-17.8°C)                                      | 43839                               | 42962            | 42748            | 42577              | 42193              | 6.81                   | 6.86             | 6.88             | 6.89               | 6.92               |
|                  | 5°F (-15.0°C)                                      | 44539                               | 43648            | 43430            | 43256              | 42867              | 6.82                   | 6.87             | 6.89             | 6.90               | 6.93               |
|                  | 14°F (-10.0°C)                                     | 47924                               | 46966            | 46731            | 46544              | 46125              | 6.79                   | 6.84             | 6.85             | 6.87               | 6.90               |
|                  | 17°F (-8.3°C)                                      | 49053                               | 48072            | 47831            | 47640              | 47211              | 6.78                   | 6.83             | 6.84             | 6.86               | 6.88               |
|                  | 22°F (-5.6°C)                                      | 49373                               | 48386            | 48144            | 47951              | 47520              | 6.56                   | 6.61             | 6.62             | 6.63               | 6.66               |
|                  | 27°F (-2.8°C)                                      | 49694                               | 48700            | 48457            | 48263              | 47828              | 6.34                   | 6.39             | 6.40             | 6.41               | 6.44               |
|                  | 32°F (0.0°C)                                       | 50015                               | 49014            | 48769            | 48574              | 48137              | 6.12                   | 6.16             | 6.18             | 6.19               | 6.21               |
|                  | 35°F (1.7°C)                                       | 50207                               | 49203            | 48957            | 48761              | 48322              | 5.98                   | 6.03             | 6.04             | 6.06               | 6.08               |
|                  | 37°F (2.8°C)                                       | 52314                               | 51267            | 51011            | 50807              | 50350              | 6.02                   | 6.07             | 6.08             | 6.09               | 6.12               |
|                  | 42°F (5.6°C)                                       | 57581                               | 56429            | 56147            | 55922              | 55419              | 6.11                   | 6.16             | 6.17             | 6.19               | 6.21               |
|                  | 44.6°F (7.0°C)                                     | 59687                               | 58494            | 58201            | 57968              | 57447              | 6.15                   | 6.20             | 6.21             | 6.22               | 6.25               |
|                  | 47°F (8.3°C)                                       | 62847                               | 61590            | 61282            | 61037              | 60488              | 6.20                   | 6.25             | 6.27             | 6.28               | 6.30               |
|                  | 52°F (11.1°C)                                      | 59185                               | 58001            | 57711            | 57481              | 56963              | 5.50                   | 5.55             | 5.56             | 5.57               | 5.59               |
|                  | 57F (13.9°C)                                       | 55523                               | 54413            | 54140            | 53924              | 53439              | 4.80                   | 4.84             | 4.85             | 4.86               | 4.88               |
|                  | 59°F (15.0°C)                                      | 54058                               | 52977            | 52712            | 52501              | 52029              | 4.52                   | 4.55             | 4.56             | 4.57               | 4.59               |
|                  | 62°F (16.7°C)                                      | 51861                               | 50824            | 50569            | 50367              | 49914              | 4.10                   | 4.13             | 4.14             | 4.15               | 4.16               |
|                  | 64.4°F (18.0°C)                                    | 50103                               | 49101            | 48855            | 48660              | 48222              | 3.76                   | 3.79             | 3.80             | 3.80               | 3.82               |
|                  | 69.8°F (21.0°C)                                    | 43549                               | 42678            | 42465            | 42295              | 41915              | 3.00                   | 3.02             | 3.03             | 3.04               | 3.05               |
|                  | 75.2°F (24.0°C)                                    | 42662                               | 41808            | 41599            | 41433              | 41060              | 2.24                   | 2.26             | 2.26             | 2.27               | 2.28               |

Table 28 – 37MUHA+ 45MULACooling Performance (54K - 60D)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
| 785            | -22°F<br>30°C      | TC    | 35573           | 35561            | 35551            | 35757            | 36810            | 37140            | 37119            | 37103            | 37100            | 37074            | 38248            | 38228            | 38203            | 38199            | 38172            | 40347            | 40336            | 40306            | 40296            | 40236            |
|                |                    | S/T   | 0.77            | 0.87             | 0.96             | 0.99             | 0.99             | 0.63             | 0.73             | 0.81             | 0.82             | 0.93             | 0.53             | 0.63             | 0.71             | 0.73             | 0.82             | 0.38             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 5.02            | 5.03             | 5.03             | 5.02             | 5.00             | 4.99             | 4.99             | 4.99             | 4.99             | 5.00             | 4.98             | 4.98             | 4.98             | 4.98             | 4.98             | 5.00             | 5.00             | 5.00             | 5.00             | 5.00             |
|                | -13°F<br>25°C      | TC    | 38538           | 38524            | 38513            | 38737            | 39878            | 40235            | 40212            | 40194            | 40191            | 40163            | 41435            | 41414            | 41386            | 41382            | 41353            | 43709            | 43698            | 43665            | 43655            | 43589            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 5.21            | 5.21             | 5.21             | 5.21             | 5.18             | 5.17             | 5.18             | 5.18             | 5.18             | 5.18             | 5.16             | 5.16             | 5.17             | 5.17             | 5.17             | 5.18             | 5.18             | 5.18             | 5.18             | 5.19             |
|                | -4°F<br>20°C       | TC    | 41502           | 41488            | 41476            | 41717            | 42945            | 43329            | 43306            | 43286            | 43283            | 43253            | 44623            | 44600            | 44570            | 44565            | 44534            | 47072            | 47059            | 47024            | 47013            | 46942            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 5.40            | 5.40             | 5.40             | 5.39             | 5.37             | 5.36             | 5.36             | 5.36             | 5.36             | 5.37             | 5.35             | 5.35             | 5.35             | 5.35             | 5.35             | 5.37             | 5.37             | 5.37             | 5.37             | 5.37             |
|                | 0°F<br>17.8°C      | TC    | 42872           | 42853            | 43019            | 43347            | 44547            | 44741            | 44707            | 44682            | 44677            | 44670            | 46053            | 46027            | 45985            | 45979            | 45938            | 48535            | 48521            | 48523            | 48529            | 48565            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 5.44            | 5.44             | 5.44             | 5.44             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.43             | 5.48             | 5.48             | 5.48             | 5.48             | 5.48             |
|                | 5°F<br>15°C        | TC    | 44133           | 44173            | 44768            | 44973            | 46349            | 46232            | 46241            | 46246            | 46247            | 46475            | 47745            | 47741            | 47754            | 47755            | 47761            | 50597            | 50583            | 50583            | 50587            | 50615            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 5.49            | 5.49             | 5.49             | 5.49             | 5.51             | 5.50             | 5.50             | 5.50             | 5.50             | 5.51             | 5.53             | 5.53             | 5.54             | 5.54             | 5.54             | 5.64             | 5.64             | 5.64             | 5.64             | 5.64             |
|                | 14°F<br>10°C       | TC    | 44495           | 44479            | 44663            | 45054            | 46452            | 46729            | 46702            | 46680            | 46676            | 46652            | 48344            | 48321            | 48284            | 48277            | 48237            | 51384            | 51368            | 51331            | 51319            | 51241            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 5.19            | 5.19             | 5.19             | 5.19             | 5.17             | 5.17             | 5.17             | 5.17             | 5.17             | 5.17             | 5.15             | 5.16             | 5.16             | 5.16             | 5.16             | 5.17             | 5.17             | 5.18             | 5.18             | 5.18             |
|                | 17°F<br>10°C       | TC    | 44672           | 44683            | 45230            | 45491            | 46956            | 46915            | 46919            | 46928            | 46930            | 47152            | 48410            | 48429            | 48460            | 48463            | 48475            | 51630            | 51614            | 51620            | 51630            | 51677            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 5.04            | 5.04             | 5.04             | 5.04             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.03             | 5.07             | 5.07             | 5.07             | 5.07             | 5.07             |
|                | 23°F<br>5°C        | TC    | 44086           | 44147            | 44865            | 45086            | 46559            | 46349            | 46360            | 46367            | 46368            | 46642            | 47983            | 47981            | 47996            | 47998            | 48006            | 51076            | 51061            | 51063            | 51070            | 51105            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 5.14            | 5.14             | 5.15             | 5.15             | 5.18             | 5.17             | 5.17             | 5.17             | 5.17             | 5.18             | 5.20             | 5.20             | 5.21             | 5.21             | 5.21             | 5.29             | 5.29             | 5.29             | 5.29             | 5.30             |
|                | 35°F<br>1.7°C      | TC    | 43522           | 43523            | 43607            | 43656            | 44778            | 45610            | 45604            | 45606            | 45607            | 45608            | 47076            | 47073            | 47068            | 47068            | 47073            | 49802            | 49791            | 49780            | 49787            | 49778            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 5.02            | 5.02             | 5.04             | 5.04             | 5.20             | 5.32             | 5.32             | 5.32             | 5.32             | 5.32             | 5.55             | 5.55             | 5.55             | 5.55             | 5.55             | 6.03             | 6.03             | 6.03             | 6.03             | 6.03             |
|                | 41°F<br>5°C        | TC    | 37763           | 37764            | 37869            | 37920            | 38996            | 39566            | 39562            | 39563            | 39563            | 39598            | 40832            | 40828            | 40824            | 40825            | 40829            | 43183            | 43173            | 43164            | 43168            | 43162            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 3.43            | 3.43             | 3.44             | 3.45             | 3.57             | 3.64             | 3.64             | 3.64             | 3.64             | 3.64             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             | 4.14             | 4.14             | 4.14             | 4.14             | 4.14             |
|                | 47°F<br>8.3°C      | TC    | 31997           | 31998            | 32121            | 32177            | 33167            | 33520            | 33515            | 33516            | 33516            | 33567            | 34587            | 34584            | 34581            | 34581            | 34583            | 36572            | 36563            | 36560            | 36559            | 36554            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.84            | 1.84             | 1.85             | 1.85             | 1.93             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             |
|                | 50°F<br>10°C       | TC    | 31223           | 31733            | 32793            | 32981            | 34244            | 33057            | 33077            | 33184            | 33227            | 34285            | 34359            | 34403            | 34423            | 34425            | 34581            | 36834            | 36852            | 36942            | 36952            | 37001            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.05            | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                | 59°F<br>15°C       | TC    | 30676           | 31415            | 32521            | 32717            | 34033            | 32549            | 32563            | 32725            | 32788            | 34072            | 33900            | 33936            | 33950            | 33952            | 34176            | 36489            | 36499            | 36570            | 36579            | 36614            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.02            | 2.03             | 2.03             | 2.03             | 2.04             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                | 68°F<br>20°C       | TC    | 30161           | 31133            | 32279            | 32483            | 33848            | 32046            | 32056            | 32306            | 32517            | 33886            | 33440            | 33468            | 33477            | 33478            | 33859            | 36108            | 36120            | 36178            | 36185            | 36211            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.00            | 2.01             | 2.02             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                | 77°F<br>25°C       | TC    | 29588           | 30722            | 31913            | 32125            | 33545            | 31512            | 31527            | 31890            | 32163            | 33584            | 32951            | 32989            | 33004            | 33042            | 33615            | 35688            | 35720            | 35800            | 35809            | 35847            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.00            | 2.00             | 2.01             | 2.02             | 2.03             | 2.01             | 2.01             | 2.01             | 2.02             | 2.03             | 2.02             | 2.02             | 2.02             | 2.02             | 2.03             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             |
|                | 82°F<br>27.8°C     | TC    | 30357           | 31644            | 32905            | 33129            | 34636            | 32361            | 32413            | 32945            | 33169            | 34675            | 33875            | 33920            | 33937            | 33990            | 34707            | 36743            | 36790            | 36882            | 36892            | 36936            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 2.34            | 2.35             | 2.36             | 2.36             | 2.37             | 2.36             | 2.36             | 2.36             | 2.36             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.39             | 2.39             | 2.39             | 2.39             | 2.39             |
|                | 86°F<br>30°C       | TC    | 32315           | 33811            | 35183            | 35425            | 37077            | 34448            | 34520            | 35225            | 35468            | 37106            | 36092            | 36134            | 36191            | 36224            | 37140            | 39194            | 39251            | 39343            | 39353            | 39393            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 3.05            | 3.06             | 3.08             | 3.08             | 3.10             | 3.07             | 3.07             | 3.08             | 3.08             | 3.10             | 3.09             | 3.09             | 3.09             | 3.09             | 3.10             | 3.13             | 3.13             | 3.12             | 3.12             |                  |

Table 28 – 37MUHA+ 45MULACooling Performance (54K - 60D) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 1047           | -22°F<br>30°C      | TC    | 46124            | 46103            | 46761            | 46955            | 48247            | 48124            | 48084            | 48054            | 48049            | 48010            | 49563            | 49500            | 49454            | 49447            | 49399            | 52279            | 52265            | 52158            | 52138            | 52028            |
|                |                    | S/T   | 0.80             | 0.91             | 0.99             | 0.99             | 0.99             | 0.64             | 0.75             | 0.84             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.75             | 0.86             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 6.42             | 6.43             | 6.41             | 6.41             | 6.39             | 6.39             | 6.39             | 6.39             | 6.39             | 6.40             | 6.38             | 6.38             | 6.39             | 6.39             | 6.39             | 6.42             | 6.42             | 6.42             | 6.42             | 6.42             |
|                | -13°F<br>25°C      | TC    | 49968            | 49945            | 50658            | 50867            | 52267            | 52134            | 52091            | 52058            | 52053            | 52010            | 53693            | 53625            | 53575            | 53567            | 53516            | 56636            | 56620            | 56504            | 56483            | 56363            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 6.66             | 6.67             | 6.65             | 6.65             | 6.63             | 6.63             | 6.63             | 6.63             | 6.63             | 6.63             | 6.62             | 6.62             | 6.62             | 6.62             | 6.63             | 6.66             | 6.66             | 6.66             | 6.66             | 6.66             |
|                | -4°F<br>20°C       | TC    | 53812            | 53787            | 54554            | 54780            | 56288            | 56145            | 56098            | 56063            | 56058            | 56011            | 57823            | 57750            | 57696            | 57688            | 57633            | 60992            | 60976            | 60850            | 60828            | 60699            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 6.90             | 6.90             | 6.89             | 6.89             | 6.87             | 6.86             | 6.87             | 6.87             | 6.87             | 6.87             | 6.85             | 6.86             | 6.86             | 6.86             | 6.86             | 6.90             | 6.90             | 6.90             | 6.90             | 6.90             |
|                | 0°F<br>17.8°C      | TC    | 55597            | 55565            | 56596            | 56832            | 58393            | 57982            | 57918            | 57873            | 57866            | 58448            | 59686            | 59601            | 59527            | 59519            | 59490            | 62896            | 62881            | 62876            | 62885            | 62925            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 6.96             | 6.96             | 6.96             | 6.95             | 6.96             | 6.95             | 6.95             | 6.96             | 6.95             | 6.96             | 6.96             | 6.96             | 6.96             | 6.97             | 6.97             | 6.97             | 7.04             | 7.04             | 7.04             | 7.04             |
|                | 5°F<br>15°C        | TC    | 57191            | 57388            | 58700            | 58971            | 60788            | 59874            | 59889            | 59893            | 59954            | 60848            | 61788            | 61804            | 61817            | 61819            | 61901            | 65413            | 65393            | 65427            | 65434            | 65463            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 7.01             | 7.01             | 7.03             | 7.03             | 7.07             | 7.05             | 7.05             | 7.05             | 7.05             | 7.07             | 7.09             | 7.09             | 7.10             | 7.10             | 7.10             | 7.25             | 7.25             | 7.25             | 7.25             | 7.25             |
|                | 14°F<br>10°C       | TC    | 57705            | 57676            | 58854            | 59130            | 60963            | 60570            | 60517            | 60476            | 60469            | 61035            | 62645            | 62567            | 62503            | 62493            | 62430            | 66612            | 66591            | 66464            | 66441            | 66299            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 6.64             | 6.64             | 6.63             | 6.63             | 6.62             | 6.61             | 6.62             | 6.62             | 6.62             | 6.62             | 6.61             | 6.61             | 6.61             | 6.61             | 6.62             | 6.64             | 6.64             | 6.64             | 6.64             | 6.64             |
|                | 17°F<br>10°C       | TC    | 57741            | 57929            | 59268            | 59557            | 61491            | 60615            | 60640            | 60651            | 60702            | 61557            | 62683            | 62707            | 62732            | 62735            | 62812            | 66665            | 66647            | 66637            | 66649            | 66705            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 6.45             | 6.45             | 6.44             | 6.44             | 6.44             | 6.44             | 6.44             | 6.44             | 6.44             | 6.44             | 6.45             | 6.45             | 6.45             | 6.45             | 6.45             | 6.50             | 6.50             | 6.50             | 6.50             | 6.51             |
|                | 23°F<br>5°C        | TC    | 57130            | 57376            | 58860            | 59151            | 61100            | 60023            | 60041            | 60048            | 60127            | 61166            | 62094            | 62115            | 62131            | 62133            | 62233            | 66024            | 66004            | 66051            | 66060            | 66098            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 6.58             | 6.58             | 6.61             | 6.61             | 6.65             | 6.62             | 6.63             | 6.63             | 6.63             | 6.65             | 6.67             | 6.67             | 6.67             | 6.67             | 6.68             | 6.80             | 6.80             | 6.80             | 6.80             | 6.80             |
|                | 35°F<br>1.7°C      | TC    | 56442            | 56444            | 56776            | 56934            | 58771            | 59081            | 59078            | 59083            | 59084            | 59241            | 60930            | 60926            | 60929            | 60931            | 60937            | 64361            | 64346            | 64343            | 64340            | 64345            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 6.43             | 6.43             | 6.48             | 6.50             | 6.77             | 6.82             | 6.82             | 6.82             | 6.82             | 6.84             | 7.12             | 7.12             | 7.12             | 7.12             | 7.12             | 7.74             | 7.73             | 7.73             | 7.73             | 7.74             |
|                | 41°F<br>5°C        | TC    | 48971            | 48972            | 49362            | 49705            | 51174            | 51249            | 51248            | 51250            | 51250            | 51431            | 52848            | 52844            | 52847            | 52848            | 52851            | 55813            | 55799            | 55796            | 55793            | 55799            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 4.38             | 4.38             | 4.43             | 4.47             | 4.65             | 4.66             | 4.66             | 4.66             | 4.66             | 4.68             | 4.87             | 4.87             | 4.87             | 4.87             | 4.87             | 5.31             | 5.31             | 5.31             | 5.31             | 5.31             |
|                | 47°F<br>8.3°C      | TC    | 41494            | 41521            | 42078            | 42266            | 43517            | 43418            | 43416            | 43417            | 43417            | 43618            | 44766            | 44762            | 44765            | 44765            | 44765            | 47272            | 47260            | 47256            | 47254            | 47259            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.36             | 2.36             | 2.40             | 2.42             | 2.52             | 2.51             | 2.51             | 2.51             | 2.51             | 2.53             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                | 50°F<br>10°C       | TC    | 40522            | 41638            | 43043            | 43292            | 44970            | 42810            | 42833            | 43129            | 43265            | 45013            | 44480            | 44538            | 44561            | 44564            | 44992            | 47546            | 47671            | 47794            | 47808            | 47868            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
|                | 59°F<br>15°C       | TC    | 39838            | 41235            | 42699            | 42959            | 44707            | 42150            | 42208            | 42687            | 43005            | 44751            | 43889            | 43933            | 43949            | 44013            | 44788            | 47128            | 47222            | 47317            | 47327            | 47367            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.60             | 2.60             | 2.61             | 2.61             | 2.62             | 2.61             | 2.61             | 2.61             | 2.61             | 2.62             | 2.62             | 2.62             | 2.61             | 2.62             | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |
|                | 68°F<br>20°C       | TC    | 39139            | 40810            | 42323            | 42592            | 44399            | 41435            | 41528            | 42369            | 42638            | 44443            | 43226            | 43258            | 43336            | 43374            | 44480            | 46576            | 46662            | 46736            | 46743            | 46768            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.56             | 2.58             | 2.59             | 2.60             | 2.61             | 2.59             | 2.59             | 2.59             | 2.60             | 2.61             | 2.60             | 2.60             | 2.60             | 2.60             | 2.61             | 2.64             | 2.64             | 2.64             | 2.64             | 2.63             |
|                | 77°F<br>25°C       | TC    | 38413            | 40263            | 41839            | 42117            | 43999            | 40723            | 40852            | 41884            | 42164            | 44043            | 42567            | 42615            | 42724            | 42772            | 44080            | 45974            | 46114            | 46220            | 46232            | 46275            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.56             | 2.57             | 2.59             | 2.59             | 2.60             | 2.58             | 2.58             | 2.59             | 2.59             | 2.60             | 2.59             | 2.59             | 2.59             | 2.59             | 2.60             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
|                | 82°F<br>27.8°C     | TC    | 39441            | 41455            | 43127            | 43419            | 45407            | 41795            | 41957            | 43164            | 43468            | 45455            | 43740            | 43795            | 43931            | 43985            | 45495            | 47292            | 47469            | 47593            | 47606            | 47658            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 3.00             | 3.02             | 3.03             | 3.03             | 3.05             | 3.02             | 3.02             | 3.03             | 3.03             | 3.05             | 3.04             | 3.04             | 3.04             | 3.04             | 3.05             | 3.07             | 3.07             | 3.07             | 3.06             | 3.06             |
|                | 86°F<br>30°C       | TC    | 42211            | 44319            | 46131            | 46453            | 48616            | 44515            | 44720            | 46182            | 46506            | 48667            | 46625            | 46678            | 46850            | 46917            | 48708            | 50477            | 50672            | 50792            | 50804            | 50852            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 3.91             | 3.93             | 3.95             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 29 – 37MUHA+ 45MULA Heating Performance (54K - 60D)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 785              | -22°F (-30.0°C)                                    | 23330                               | 22864            | 22749            | 22658              | 22454              | 5.92                   | 5.97             | 5.98             | 6.00               | 6.02               |
|                  | -13°F (-25.0°C)                                    | 29003                               | 28423            | 28281            | 28168              | 27914              | 6.30                   | 6.35             | 6.36             | 6.37               | 6.40               |
|                  | -4°F (-20.0°C)                                     | 26319                               | 25792            | 25664            | 25561              | 25331              | 6.16                   | 6.21             | 6.22             | 6.23               | 6.26               |
|                  | 0°F (-17.8°C)                                      | 30225                               | 29621            | 29473            | 29355              | 29091              | 6.46                   | 6.51             | 6.53             | 6.54               | 6.56               |
|                  | 5°F (-15.0°C)                                      | 35109                               | 34406            | 34234            | 34097              | 33791              | 6.84                   | 6.90             | 6.91             | 6.92               | 6.95               |
|                  | 14°F (-10.0°C)                                     | 37785                               | 37030            | 36844            | 36697              | 36367              | 6.85                   | 6.91             | 6.92             | 6.93               | 6.96               |
|                  | 17°F (-8.3°C)                                      | 38678                               | 37904            | 37714            | 37564              | 37226              | 6.85                   | 6.91             | 6.92             | 6.94               | 6.96               |
|                  | 22°F (-5.6°C)                                      | 38754                               | 37979            | 37789            | 37638              | 37299              | 6.65                   | 6.70             | 6.71             | 6.73               | 6.75               |
|                  | 27°F (-2.8°C)                                      | 38831                               | 38054            | 37864            | 37713              | 37373              | 6.44                   | 6.49             | 6.50             | 6.52               | 6.54               |
|                  | 32°F (0.0°C)                                       | 38908                               | 38130            | 37939            | 37787              | 37447              | 6.23                   | 6.28             | 6.29             | 6.30               | 6.33               |
|                  | 35°F (1.7°C)                                       | 38954                               | 38175            | 37984            | 37832              | 37491              | 6.10                   | 6.15             | 6.17             | 6.18               | 6.20               |
|                  | 37°F (2.8°C)                                       | 40498                               | 39688            | 39489            | 39331              | 38977              | 6.19                   | 6.24             | 6.25             | 6.26               | 6.29               |
|                  | 42°F (5.6°C)                                       | 44358                               | 43471            | 43253            | 43080              | 42693              | 6.40                   | 6.45             | 6.47             | 6.48               | 6.50               |
|                  | 44.6°F (7.0°C)                                     | 45902                               | 44984            | 44759            | 44580              | 44179              | 6.49                   | 6.54             | 6.55             | 6.56               | 6.59               |
|                  | 47°F (8.3°C)                                       | 48218                               | 47253            | 47017            | 46829              | 46408              | 6.61                   | 6.67             | 6.68             | 6.69               | 6.72               |
|                  | 52°F (11.1°C)                                      | 45620                               | 44708            | 44485            | 44307              | 43908              | 5.78                   | 5.83             | 5.84             | 5.85               | 5.88               |
|                  | 57F (13.9°C)                                       | 43023                               | 42163            | 41952            | 41784              | 41408              | 4.95                   | 4.99             | 5.00             | 5.01               | 5.03               |
|                  | 59°F (15.0°C)                                      | 41984                               | 41145            | 40939            | 40775              | 40408              | 4.62                   | 4.66             | 4.67             | 4.67               | 4.69               |
|                  | 62°F (16.7°C)                                      | 40426                               | 39617            | 39419            | 39262              | 38908              | 4.12                   | 4.15             | 4.16             | 4.17               | 4.19               |
|                  | 64.4°F (18.0°C)                                    | 39179                               | 38396            | 38204            | 38051              | 37708              | 3.72                   | 3.75             | 3.76             | 3.77               | 3.78               |
|                  | 69.8°F (21.0°C)                                    | 32369                               | 31722            | 31563            | 31437              | 31154              | 2.82                   | 2.85             | 2.85             | 2.86               | 2.87               |
|                  | 75.2°F (24.0°C)                                    | 30968                               | 30349            | 30197            | 30076              | 29805              | 1.93                   | 1.94             | 1.95             | 1.95               | 1.96               |
| 1047             | -22°F (-30.0°C)                                    | 30201                               | 29597            | 29449            | 29331              | 29067              | 5.98                   | 6.03             | 6.04             | 6.06               | 6.08               |
|                  | -13°F (-25.0°C)                                    | 37544                               | 36793            | 36609            | 36463              | 36135              | 6.36                   | 6.41             | 6.42             | 6.44               | 6.46               |
|                  | -4°F (-20.0°C)                                     | 34070                               | 33388            | 33221            | 33088              | 32791              | 6.22                   | 6.27             | 6.28             | 6.29               | 6.32               |
|                  | 0°F (-17.8°C)                                      | 39127                               | 38344            | 38152            | 38000              | 37658              | 6.53                   | 6.58             | 6.59             | 6.60               | 6.63               |
|                  | 5°F (-15.0°C)                                      | 45448                               | 44539            | 44316            | 44139              | 43742              | 6.91                   | 6.97             | 6.98             | 6.99               | 7.02               |
|                  | 14°F (-10.0°C)                                     | 48913                               | 47935            | 47695            | 47504              | 47077              | 6.92                   | 6.97             | 6.99             | 7.00               | 7.03               |
|                  | 17°F (-8.3°C)                                      | 50068                               | 49067            | 48821            | 48626              | 48188              | 6.92                   | 6.98             | 6.99             | 7.01               | 7.03               |
|                  | 22°F (-5.6°C)                                      | 50167                               | 49164            | 48918            | 48722              | 48284              | 6.71                   | 6.77             | 6.78             | 6.79               | 6.82               |
|                  | 27°F (-2.8°C)                                      | 50267                               | 49261            | 49015            | 48819              | 48380              | 6.50                   | 6.55             | 6.57             | 6.58               | 6.61               |
|                  | 32°F (0.0°C)                                       | 50366                               | 49359            | 49112            | 48915              | 48475              | 6.29                   | 6.34             | 6.36             | 6.37               | 6.39               |
|                  | 35°F (1.7°C)                                       | 50426                               | 49417            | 49170            | 48973              | 48533              | 6.17                   | 6.22             | 6.23             | 6.24               | 6.27               |
|                  | 37°F (2.8°C)                                       | 52424                               | 51376            | 51119            | 50914              | 50456              | 6.25                   | 6.30             | 6.31             | 6.33               | 6.35               |
|                  | 42°F (5.6°C)                                       | 57421                               | 56273            | 55991            | 55767              | 55265              | 6.47                   | 6.52             | 6.53             | 6.54               | 6.57               |
|                  | 44.6°F (7.0°C)                                     | 59420                               | 58231            | 57940            | 57708              | 57189              | 6.55                   | 6.60             | 6.62             | 6.63               | 6.66               |
|                  | 47°F (8.3°C)                                       | 62418                               | 61169            | 60864            | 60620              | 60075              | 6.68                   | 6.73             | 6.75             | 6.76               | 6.79               |
|                  | 52°F (11.1°C)                                      | 59056                               | 57875            | 57585            | 57355              | 56839              | 5.84                   | 5.89             | 5.90             | 5.91               | 5.93               |
|                  | 57F (13.9°C)                                       | 55693                               | 54580            | 54307            | 54089              | 53603              | 5.00                   | 5.04             | 5.05             | 5.06               | 5.08               |
|                  | 59°F (15.0°C)                                      | 54349                               | 53262            | 52995            | 52783              | 52308              | 4.67                   | 4.70             | 4.71             | 4.72               | 4.74               |
|                  | 62°F (16.7°C)                                      | 52331                               | 51285            | 51028            | 50824              | 50367              | 4.16                   | 4.20             | 4.20             | 4.21               | 4.23               |
|                  | 64.4°F (18.0°C)                                    | 50717                               | 49703            | 49455            | 49257              | 48813              | 3.76                   | 3.79             | 3.80             | 3.80               | 3.82               |
|                  | 69.8°F (21.0°C)                                    | 41902                               | 41064            | 40859            | 40695              | 40329              | 2.85                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | 75.2°F (24.0°C)                                    | 40088                               | 39286            | 39090            | 38934              | 38583              | 1.95                   | 1.96             | 1.97             | 1.97               | 1.98               |

## PERFORMANCE DATA - 37MURA + 45MULA

Table 30 – 37MURA + 45MULA Cooling Performance (18K - 24A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    | ID DB |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 441            | -13°F<br>25°C      | TC    | 12511            | 12507            | 12504            | 12576            | 12946            | 13062            | 13055            | 13049            | 13048            | 13039            | 13452            | 13445            | 13436            | 13435            | 13425            | 14190            | 14187            | 14176            | 14173            | 14151            |
|                |                    | S/T   | 0.77             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             |
|                | -4°F<br>20°C       | TC    | 13474            | 13469            | 13465            | 13544            | 13942            | 14067            | 14059            | 14053            | 14052            | 14042            | 14487            | 14479            | 14470            | 14468            | 14458            | 15282            | 15278            | 15267            | 15263            | 15240            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             |
|                | 0°F<br>17.8°C      | TC    | 13918            | 13912            | 13966            | 14073            | 14462            | 14525            | 14514            | 14506            | 14505            | 14502            | 14951            | 14943            | 14929            | 14927            | 14914            | 15757            | 15753            | 15753            | 15755            | 15767            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             |
|                | 5°F<br>15°C        | TC    | 14328            | 14341            | 14534            | 14601            | 15047            | 15009            | 15012            | 15014            | 15014            | 15088            | 15500            | 15499            | 15503            | 15504            | 15506            | 16427            | 16422            | 16422            | 16423            | 16432            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.73             | 0.73             | 0.73             | 0.73             | 0.73             | 0.74             | 0.74             | 0.74             | 0.74             | 0.74             |
|                | 14°F<br>10°C       | TC    | 14579            | 14573            | 14634            | 14762            | 15220            | 15310            | 15302            | 15294            | 15293            | 15285            | 15840            | 15832            | 15820            | 15818            | 15804            | 16836            | 16830            | 16818            | 16814            | 16789            |
|                |                    | S/T   | 0.78             | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             |
|                | 17°F<br>10°C       | TC    | 14680            | 14684            | 14864            | 14950            | 15431            | 15417            | 15419            | 15422            | 15422            | 15495            | 15909            | 15915            | 15925            | 15926            | 15930            | 16967            | 16962            | 16964            | 16967            | 16983            |
|                |                    | S/T   | 0.79             | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             |
|                | 23°F<br>5°C        | TC    | 14974            | 14995            | 15239            | 15314            | 15814            | 15743            | 15747            | 15749            | 15749            | 15842            | 16298            | 16297            | 16302            | 16303            | 16305            | 17348            | 17343            | 17344            | 17346            | 17358            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 0.61             | 0.61             | 0.61             | 0.61             | 0.62             | 0.61             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             |
|                | 35°F<br>1.7°C      | TC    | 15771            | 15771            | 15802            | 15820            | 16226            | 16528            | 16525            | 16526            | 16526            | 16527            | 17059            | 17057            | 17056            | 17056            | 17058            | 18047            | 18042            | 18039            | 18041            | 18038            |
|                |                    | S/T   | 0.75             | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 0.60             | 0.60             | 0.60             | 0.60             | 0.62             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.66             | 0.66             | 0.66             | 0.66             | 0.66             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             |
|                | 41°F<br>5°C        | TC    | 15107            | 15107            | 15149            | 15169            | 15600            | 15828            | 15826            | 15826            | 15827            | 15840            | 16334            | 16332            | 16331            | 16331            | 16333            | 17275            | 17270            | 17267            | 17269            | 17266            |
|                |                    | S/T   | 0.76             | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 0.65             | 0.65             | 0.65             | 0.65             | 0.68             | 0.69             | 0.69             | 0.69             | 0.69             | 0.69             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             |
|                | 47°F<br>8.3°C      | TC    | 14440            | 14440            | 14496            | 14521            | 14968            | 15127            | 15125            | 15126            | 15126            | 15149            | 15609            | 15608            | 15606            | 15606            | 15607            | 16505            | 16501            | 16500            | 16499            | 16497            |
|                |                    | S/T   | 0.77             | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.70             | 0.70             | 0.70             | 0.71             | 0.73             | 0.75             | 0.75             | 0.75             | 0.75             | 0.75             | 0.78             | 0.78             | 0.78             | 0.78             | 0.78             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 50°F<br>10°C       | TC    | 14070            | 14300            | 14777            | 14862            | 15431            | 14896            | 14905            | 14954            | 14973            | 15449            | 15483            | 15503            | 15512            | 15513            | 15583            | 16598            | 16606            | 16647            | 16651            | 16673            |
|                |                    | S/T   | 0.87             | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             |
|                | 59°F<br>15°C       | TC    | 13760            | 14092            | 14587            | 14675            | 15266            | 14600            | 14606            | 14679            | 14707            | 15283            | 15206            | 15222            | 15229            | 15229            | 15330            | 16367            | 16372            | 16404            | 16408            | 16424            |
|                |                    | S/T   | 0.88             | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 0.82             | 0.82             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             |
|                | 68°F<br>20°C       | TC    | 13465            | 13899            | 14410            | 14501            | 15111            | 14306            | 14311            | 14423            | 14517            | 15128            | 14929            | 14941            | 14945            | 14946            | 15116            | 16120            | 16125            | 16151            | 16154            | 16166            |
|                |                    | S/T   | 0.91             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 0.85             | 0.86             | 0.86             | 0.86             | 0.87             | 0.86             | 0.86             | 0.86             | 0.86             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             |
|                | 77°F<br>25°C       | TC    | 13145            | 13648            | 14177            | 14272            | 14902            | 13999            | 14006            | 14167            | 14288            | 14920            | 14638            | 14655            | 14662            | 14679            | 14933            | 15854            | 15869            | 15904            | 15908            | 15925            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 0.89             | 0.89             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             |
|                | 82°F<br>27.8°C     | TC    | 13196            | 13756            | 14304            | 14401            | 15056            | 14067            | 14090            | 14321            | 14419            | 15073            | 14725            | 14745            | 14752            | 14775            | 15087            | 15972            | 15993            | 16033            | 16037            | 16056            |
|                |                    | S/T   | 0.94             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 0.97             | 0.98             | 0.98             | 0.98             | 0.99             | 0.98             | 0.98             | 0.98             | 0.98             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 86°F<br>30°C       | TC    | 13516            | 14142            | 14715            | 14817            | 15507            | 14408            | 14438            | 14733            | 14835            | 15520            | 15096            | 15113            | 15137            | 15151            | 15534            | 16393            | 16417            | 16455            | 16459            | 16477            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.12             | 1.13             | 1.13             | 1.13             | 1.14             | 1.13             | 1.13             | 1.13             | 1.13             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             |
|                | 95°F<br>35°C       | TC    | 14410            | 14435            | 14745            | 14832            | 15414            | 15331            | 15335            | 15340            | 15341            | 15445            | 15993            | 15995            | 16003            | 16005            | 16012            | 17265            | 17259            | 17261            | 17260            | 17273            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.40             | 1.40             | 1.41             | 1.42             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
|                | 104°F<br>40°C      | TC    | 12149            | 12192            | 12544            | 12618            | 13118            | 12926            | 12931</          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 30 – 37MURA + 45MULA Cooling Performance (18K - 24A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | ID DB |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 617            | -13°F<br>25°C      | TC    | 17022           | 17015            | 17257            | 17329            | 17806            | 17760            | 17746            | 17734            | 17733            | 17718            | 18291            | 18268            | 18251            | 18248            | 18231            | 19294            | 19289            | 19249            | 19242            | 19201            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.92            | 0.92             | 0.92             | 0.92             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             |
|                | -4°F<br>20°C       | TC    | 18332           | 18323            | 18585            | 18662            | 19175            | 19126            | 19111            | 19099            | 19097            | 19081            | 19698            | 19674            | 19655            | 19652            | 19633            | 20778            | 20772            | 20730            | 20722            | 20678            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.95            | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.94             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             |
|                | 0°F<br>17.8°C      | TC    | 18940           | 18929            | 19280            | 19361            | 19892            | 19752            | 19731            | 19715            | 19713            | 19911            | 20333            | 20304            | 20279            | 20276            | 20266            | 21427            | 21421            | 21420            | 21423            | 21436            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 0.96            | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             |
|                | 5°F<br>15°C        | TC    | 19483           | 19550            | 19997            | 20089            | 20708            | 20397            | 20402            | 20403            | 20424            | 20729            | 21049            | 21055            | 21059            | 21059            | 21087            | 22284            | 22277            | 22289            | 22291            | 22301            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 0.97            | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.98             | 0.98             | 0.98             | 0.98             | 0.98             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 14°F<br>10°C       | TC    | 19839           | 19829            | 20234            | 20329            | 20959            | 20824            | 20806            | 20792            | 20789            | 20984            | 21538            | 21511            | 21489            | 21485            | 21464            | 22901            | 22894            | 22850            | 22842            | 22794            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.85            | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 17°F<br>10°C       | TC    | 19911           | 19976            | 20437            | 20537            | 21204            | 20902            | 20911            | 20914            | 20932            | 21227            | 21615            | 21623            | 21632            | 21633            | 21660            | 22988            | 22982            | 22979            | 22983            | 23002            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 0.80            | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.81             | 0.81             | 0.81             | 0.81             | 0.81             |
|                | 23°F<br>5°C        | TC    | 20362           | 20449            | 20978            | 21082            | 21777            | 21393            | 21399            | 21401            | 21430            | 21800            | 22131            | 22138            | 22144            | 22144            | 22180            | 23531            | 23524            | 23541            | 23544            | 23558            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 0.82            | 0.82             | 0.82             | 0.82             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 35°F<br>1.7°C      | TC    | 21461           | 21462            | 21588            | 21649            | 22347            | 22465            | 22464            | 22466            | 22466            | 22526            | 23168            | 23166            | 23167            | 23168            | 23170            | 24472            | 24467            | 24465            | 24464            | 24466            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 0.80            | 0.80             | 0.81             | 0.81             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.86             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             |
|                | 41°F<br>5°C        | TC    | 20556           | 20556            | 20720            | 20864            | 21481            | 21512            | 21512            | 21513            | 21513            | 21589            | 22183            | 22182            | 22183            | 22183            | 22185            | 23428            | 23422            | 23421            | 23420            | 23422            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 0.87            | 0.87             | 0.88             | 0.89             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 47°F<br>8.3°C      | TC    | 19650           | 19663            | 19926            | 20015            | 20608            | 20561            | 20560            | 20561            | 20560            | 20655            | 21199            | 21197            | 21199            | 21198            | 21198            | 22386            | 22380            | 22378            | 22378            | 22380            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 0.94            | 0.94             | 0.96             | 0.97             | 1.01             | 1.00             | 1.00             | 1.00             | 1.00             | 1.01             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             |
|                | 50°F<br>10°C       | TC    | 19161           | 19688            | 20353            | 20470            | 21264            | 20242            | 20254            | 20394            | 20458            | 21284            | 21032            | 21059            | 21070            | 21072            | 21274            | 22482            | 22541            | 22599            | 22606            | 22634            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.07            | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.06             | 1.06             | 1.06             |
|                | 59°F<br>15°C       | TC    | 18751           | 19409            | 20097            | 20220            | 21043            | 19839            | 19866            | 20092            | 20241            | 21063            | 20658            | 20679            | 20686            | 20716            | 21081            | 22182            | 22227            | 22271            | 22276            | 22294            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.11            | 1.11             | 1.11             | 1.11             | 1.12             | 1.11             | 1.11             | 1.11             | 1.11             | 1.12             | 1.12             | 1.12             | 1.11             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             |
|                | 68°F<br>20°C       | TC    | 18335           | 19117            | 19826            | 19952            | 20799            | 19410            | 19454            | 19848            | 19974            | 20819            | 20249            | 20264            | 20301            | 20319            | 20837            | 21819            | 21859            | 21893            | 21897            | 21908            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.15            | 1.15             | 1.16             | 1.16             | 1.17             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             |
|                | 77°F<br>25°C       | TC    | 17907           | 18769            | 19503            | 19633            | 20510            | 18983            | 19043            | 19525            | 19655            | 20531            | 19843            | 19865            | 19916            | 19938            | 20548            | 21431            | 21496            | 21546            | 21551            | 21571            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.20            | 1.20             | 1.21             | 1.21             | 1.22             | 1.21             | 1.21             | 1.21             | 1.21             | 1.22             | 1.21             | 1.21             | 1.21             | 1.21             | 1.22             | 1.23             | 1.23             | 1.22             | 1.22             | 1.22             |
|                | 82°F<br>27.8°C     | TC    | 17991           | 18909            | 19672            | 19805            | 20712            | 19065            | 19138            | 19689            | 19827            | 20734            | 19951            | 19977            | 20039            | 20063            | 20752            | 21572            | 21653            | 21709            | 21715            | 21739            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.31            | 1.32             | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             |
|                | 86°F<br>30°C       | TC    | 18526           | 19451            | 20246            | 20387            | 21337            | 19537            | 19627            | 20269            | 20411            | 21359            | 20463            | 20486            | 20562            | 20591            | 21377            | 22153            | 22239            | 22292            | 22297            | 22318            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.51            | 1.52             | 1.53             | 1.53             | 1.54             | 1.52             | 1.52             | 1.53             | 1.53             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             |
|                | 95°F<br>35°C       | TC    | 19596           | 19702            | 20338            | 20459            | 21267            | 20826            | 20838            | 20845            | 20870            | 21294            | 21720            | 21724            | 21738            | 21740            | 21776            | 23404            | 23395            | 23400            | 23407            | 23438            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.88            | 1.89             | 1.92             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 31 – 37MURA + 45MULA Heating Performance (18K - 24A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 441              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57°F (13.9°C)                                      | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 617              | -13°F (-25.0°C)                                    | 8919                                | 8741             | 8697             | 8662               | 8584               | 1.58                   | 1.59             | 1.59             | 1.60               | 1.60               |
|                  | -4°F (-20.0°C)                                     | 10522                               | 10311            | 10260            | 10219              | 10127              | 1.64                   | 1.65             | 1.66             | 1.66               | 1.67               |
|                  | 0°F (-17.8°C)                                      | 11352                               | 11125            | 11070            | 11025              | 10926              | 1.68                   | 1.69             | 1.69             | 1.70               | 1.70               |
|                  | 5°F (-15.0°C)                                      | 12390                               | 12143            | 12082            | 12034              | 11925              | 1.72                   | 1.74             | 1.74             | 1.74               | 1.75               |
|                  | 14°F (-10.0°C)                                     | 14157                               | 13873            | 13804            | 13749              | 13625              | 1.74                   | 1.75             | 1.76             | 1.76               | 1.77               |
|                  | 17°F (-8.3°C)                                      | 14745                               | 14450            | 14378            | 14321              | 14192              | 1.74                   | 1.76             | 1.76             | 1.76               | 1.77               |
|                  | 22°F (-5.6°C)                                      | 15088                               | 14787            | 14713            | 14654              | 14522              | 1.75                   | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 27°F (-2.8°C)                                      | 15432                               | 15123            | 15047            | 14987              | 14852              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |
|                  | 32°F (0.0°C)                                       | 15775                               | 15459            | 15382            | 15320              | 15182              | 1.76                   | 1.78             | 1.78             | 1.79               | 1.79               |
|                  | 35°F (1.7°C)                                       | 15981                               | 15661            | 15583            | 15520              | 15381              | 1.77                   | 1.78             | 1.79             | 1.79               | 1.80               |
|                  | 37°F (2.8°C)                                       | 16815                               | 16479            | 16396            | 16331              | 16184              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |
|                  | 42°F (5.6°C)                                       | 18901                               | 18523            | 18431            | 18357              | 18192              | 1.74                   | 1.75             | 1.76             | 1.76               | 1.77               |
|                  | 44.6°F (7.0°C)                                     | 19736                               | 19341            | 19245            | 19168              | 18995              | 1.73                   | 1.74             | 1.75             | 1.75               | 1.76               |
|                  | 47°F (8.3°C)                                       | 20988                               | 20568            | 20465            | 20383              | 20200              | 1.72                   | 1.73             | 1.73             | 1.74               | 1.74               |
|                  | 52°F (11.1°C)                                      | 19632                               | 19240            | 19144            | 19067              | 18895              | 1.61                   | 1.62             | 1.63             | 1.63               | 1.64               |
|                  | 57°F (13.9°C)                                      | 18277                               | 17911            | 17822            | 17751              | 17591              | 1.50                   | 1.52             | 1.52             | 1.52               | 1.53               |
|                  | 59°F (15.0°C)                                      | 17735                               | 17380            | 17293            | 17224              | 17069              | 1.46                   | 1.47             | 1.48             | 1.48               | 1.48               |
|                  | 62°F (16.7°C)                                      | 16922                               | 16583            | 16500            | 16434              | 16286              | 1.40                   | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 64.4°F (18.0°C)                                    | 16271                               | 15946            | 15866            | 15802              | 15660              | 1.35                   | 1.36             | 1.36             | 1.36               | 1.37               |
|                  | 69.8°F (21.0°C)                                    | 14807                               | 14511            | 14438            | 14381              | 14251              | 1.23                   | 1.24             | 1.24             | 1.25               | 1.25               |
|                  | 75.2°F (24.0°C)                                    | 13343                               | 13076            | 13011            | 12959              | 12842              | 1.11                   | 1.12             | 1.13             | 1.13               | 1.13               |

Table 32 – 37MURA + 45MULA Cooling Performance (18K - 24B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 441            | -13°F<br>25°C      | TC    | 12511           | 12507            | 12504            | 12576            | 12946            | 13062            | 13055            | 13049            | 13048            | 13039            | 13452            | 13445            | 13436            | 13435            | 13425            | 14190            | 14187            | 14176            | 14173            | 14151            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 0.68            | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             | 0.68             |
|                | -4°F<br>20°C       | TC    | 13474           | 13469            | 13465            | 13544            | 13942            | 14067            | 14059            | 14053            | 14052            | 14042            | 14487            | 14479            | 14470            | 14468            | 14458            | 15282            | 15278            | 15267            | 15263            | 15240            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 0.71            | 0.71             | 0.71             | 0.71             | 0.71             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.70             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             |
|                | 0°F<br>17.8°C      | TC    | 13918           | 13912            | 13966            | 14073            | 14462            | 14525            | 14514            | 14506            | 14505            | 14502            | 14951            | 14943            | 14929            | 14927            | 14914            | 15757            | 15753            | 15753            | 15755            | 15767            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.71            | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.71             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             |
|                | 5°F<br>15°C        | TC    | 14328           | 14341            | 14534            | 14601            | 15047            | 15009            | 15012            | 15014            | 15014            | 15088            | 15500            | 15499            | 15503            | 15504            | 15506            | 16427            | 16422            | 16422            | 16423            | 16432            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.72            | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.73             | 0.73             | 0.73             | 0.73             | 0.73             | 0.74             | 0.74             | 0.74             | 0.74             | 0.74             |
|                | 14°F<br>10°C       | TC    | 14579           | 14573            | 14634            | 14762            | 15220            | 15310            | 15302            | 15294            | 15293            | 15285            | 15840            | 15832            | 15820            | 15818            | 15804            | 16836            | 16830            | 16818            | 16814            | 16789            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 0.63            | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             |
|                | 17°F<br>10°C       | TC    | 14680           | 14684            | 14864            | 14950            | 15431            | 15417            | 15419            | 15422            | 15422            | 15495            | 15909            | 15915            | 15925            | 15926            | 15930            | 16967            | 16962            | 16964            | 16967            | 16983            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 0.60            | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             | 0.60             |
|                | 23°F<br>5°C        | TC    | 14974           | 14995            | 15239            | 15314            | 15814            | 15743            | 15747            | 15749            | 15749            | 15842            | 16298            | 16297            | 16302            | 16303            | 16305            | 17348            | 17343            | 17344            | 17346            | 17358            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 0.61            | 0.61             | 0.61             | 0.61             | 0.62             | 0.61             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.62             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             |
|                | 35°F<br>1.7°C      | TC    | 15771           | 15771            | 15802            | 15820            | 16226            | 16528            | 16525            | 16526            | 16526            | 16527            | 17059            | 17057            | 17056            | 17056            | 17058            | 18047            | 18042            | 18039            | 18041            | 18038            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 0.60            | 0.60             | 0.60             | 0.60             | 0.62             | 0.63             | 0.63             | 0.63             | 0.63             | 0.63             | 0.66             | 0.66             | 0.66             | 0.66             | 0.66             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             |
|                | 41°F<br>5°C        | TC    | 15107           | 15107            | 15149            | 15169            | 15600            | 15828            | 15826            | 15826            | 15827            | 15840            | 16334            | 16332            | 16331            | 16331            | 16333            | 17275            | 17270            | 17267            | 17269            | 17266            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 0.65            | 0.65             | 0.65             | 0.65             | 0.68             | 0.69             | 0.69             | 0.69             | 0.69             | 0.69             | 0.72             | 0.72             | 0.72             | 0.72             | 0.72             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             |
|                | 47°F<br>8.3°C      | TC    | 14440           | 14440            | 14496            | 14521            | 14968            | 15127            | 15125            | 15126            | 15126            | 15149            | 15609            | 15608            | 15606            | 15606            | 15607            | 16505            | 16501            | 16500            | 16499            | 16497            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.70            | 0.70             | 0.70             | 0.71             | 0.73             | 0.75             | 0.75             | 0.75             | 0.75             | 0.75             | 0.78             | 0.78             | 0.78             | 0.78             | 0.78             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 50°F<br>10°C       | TC    | 14070           | 14300            | 14777            | 14862            | 15431            | 14896            | 14905            | 14954            | 14973            | 15449            | 15483            | 15503            | 15512            | 15513            | 15583            | 16598            | 16606            | 16647            | 16651            | 16673            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 0.79            | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             | 0.79             |
|                | 59°F<br>15°C       | TC    | 13760           | 14092            | 14587            | 14675            | 15266            | 14600            | 14606            | 14679            | 14707            | 15283            | 15206            | 15222            | 15229            | 15229            | 15330            | 16367            | 16372            | 16404            | 16408            | 16424            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 0.82            | 0.82             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             |
|                | 68°F<br>20°C       | TC    | 13465           | 13899            | 14410            | 14501            | 15111            | 14306            | 14311            | 14423            | 14517            | 15128            | 14929            | 14941            | 14945            | 14946            | 15116            | 16120            | 16125            | 16151            | 16154            | 16166            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 0.85            | 0.86             | 0.86             | 0.86             | 0.87             | 0.86             | 0.86             | 0.86             | 0.86             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.87             | 0.88             | 0.88             | 0.88             | 0.88             | 0.88             |
|                | 77°F<br>25°C       | TC    | 13145           | 13648            | 14177            | 14272            | 14902            | 13999            | 14006            | 14167            | 14288            | 14920            | 14638            | 14655            | 14662            | 14679            | 14933            | 15854            | 15869            | 15904            | 15908            | 15925            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 0.89            | 0.89             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.90             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             |
|                | 82°F<br>27.8°C     | TC    | 13196           | 13756            | 14304            | 14401            | 15056            | 14067            | 14090            | 14321            | 14419            | 15073            | 14725            | 14745            | 14752            | 14775            | 15087            | 15972            | 15993            | 16033            | 16037            | 16056            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 0.97            | 0.98             | 0.98             | 0.98             | 0.99             | 0.98             | 0.98             | 0.98             | 0.98             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 86°F<br>30°C       | TC    | 13516           | 14142            | 14715            | 14817            | 15507            | 14408            | 14438            | 14733            | 14835            | 15520            | 15096            | 15113            | 15137            | 15151            | 15534            | 16393            | 16417            | 16455            | 16459            | 16477            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.12            | 1.13             | 1.13             | 1.13             | 1.14             | 1.13             | 1.13             | 1.13             | 1.13             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             | 1.15             | 1.15             | 1.15             | 1.15             | 1.15             |
|                | 95°F<br>35°C       | TC    | 14410           | 14435            | 14745            | 14832            | 15414            | 15331            | 15335            | 15340            | 15341            | 15445            | 15993            | 15995            | 16003            | 16005            | 16012            | 17265            | 17259            | 17261            | 17260            | 17273            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.40            | 1.40             | 1.41             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 32 – 37MURA + 45MULA Cooling Performance (18K - 24B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 617            | -13°F<br>25°C      | TC    | 17022            | 17015            | 17257            | 17329            | 17806            | 17760            | 17746            | 17734            | 17733            | 17718            | 18291            | 18268            | 18251            | 18248            | 18231            | 19294            | 19289            | 19249            | 19242            | 19201            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.92             | 0.92             | 0.92             | 0.92             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.91             | 0.92             | 0.92             | 0.92             | 0.92             | 0.92             |
|                | -4°F<br>20°C       | TC    | 18332            | 18323            | 18585            | 18662            | 19175            | 19126            | 19111            | 19099            | 19097            | 19081            | 19698            | 19674            | 19655            | 19652            | 19633            | 20778            | 20772            | 20730            | 20722            | 20678            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.94             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             |
|                | 0°F<br>17.8°C      | TC    | 18940            | 18929            | 19280            | 19361            | 19892            | 19752            | 19731            | 19715            | 19713            | 19911            | 20333            | 20304            | 20279            | 20276            | 20266            | 21427            | 21421            | 21420            | 21423            | 21436            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.96             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             |
|                | 5°F<br>15°C        | TC    | 19483            | 19550            | 19997            | 20089            | 20708            | 20397            | 20402            | 20403            | 20424            | 20729            | 21049            | 21055            | 21059            | 21059            | 21087            | 22284            | 22277            | 22289            | 22291            | 22301            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 0.98             | 0.98             | 0.98             | 0.98             | 0.98             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 14°F<br>10°C       | TC    | 19839            | 19829            | 20234            | 20329            | 20959            | 20824            | 20806            | 20792            | 20789            | 20984            | 21538            | 21511            | 21489            | 21485            | 21464            | 22901            | 22894            | 22850            | 22842            | 22794            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 17°F<br>10°C       | TC    | 19911            | 19976            | 20437            | 20537            | 21204            | 20902            | 20911            | 20914            | 20932            | 21227            | 21615            | 21623            | 21632            | 21633            | 21660            | 22988            | 22982            | 22979            | 22983            | 23002            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.80             | 0.81             | 0.81             | 0.81             | 0.81             | 0.81             |
|                | 23°F<br>5°C        | TC    | 20362            | 20449            | 20978            | 21082            | 21777            | 21393            | 21399            | 21401            | 21430            | 21800            | 22131            | 22138            | 22144            | 22144            | 22180            | 23531            | 23524            | 23541            | 23544            | 23558            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 0.82             | 0.82             | 0.82             | 0.82             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.83             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             |
|                | 35°F<br>1.7°C      | TC    | 21461            | 21462            | 21588            | 21649            | 22347            | 22465            | 22464            | 22466            | 22466            | 22526            | 23168            | 23166            | 23167            | 23168            | 23170            | 24472            | 24467            | 24465            | 24464            | 24466            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 0.80             | 0.80             | 0.81             | 0.81             | 0.85             | 0.85             | 0.85             | 0.85             | 0.85             | 0.86             | 0.89             | 0.89             | 0.89             | 0.89             | 0.89             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             |
|                | 41°F<br>5°C        | TC    | 20556            | 20556            | 20720            | 20864            | 21481            | 21512            | 21512            | 21513            | 21513            | 21589            | 22183            | 22182            | 22183            | 22183            | 22185            | 23428            | 23422            | 23421            | 23420            | 23422            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 0.87             | 0.87             | 0.88             | 0.89             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.93             | 0.97             | 0.97             | 0.97             | 0.97             | 0.97             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 47°F<br>8.3°C      | TC    | 19650            | 19663            | 19926            | 20015            | 20608            | 20561            | 20560            | 20561            | 20560            | 20655            | 21199            | 21197            | 21199            | 21198            | 21198            | 22386            | 22380            | 22378            | 22378            | 22380            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 0.94             | 0.94             | 0.96             | 0.97             | 1.01             | 1.00             | 1.00             | 1.00             | 1.00             | 1.01             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.14             | 1.14             | 1.14             | 1.14             | 1.14             |
|                | 50°F<br>10°C       | TC    | 19161            | 19688            | 20353            | 20470            | 21264            | 20242            | 20254            | 20394            | 20458            | 21284            | 21032            | 21059            | 21070            | 21072            | 21274            | 22482            | 22541            | 22599            | 22606            | 22634            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.07             | 1.06             | 1.06             | 1.06             |
|                | 59°F<br>15°C       | TC    | 18751            | 19409            | 20097            | 20220            | 21043            | 19839            | 19866            | 20092            | 20241            | 21063            | 20658            | 20679            | 20686            | 20716            | 21081            | 22182            | 22227            | 22271            | 22276            | 22294            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.11             | 1.11             | 1.11             | 1.11             | 1.12             | 1.11             | 1.11             | 1.11             | 1.11             | 1.12             | 1.12             | 1.12             | 1.11             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             | 1.12             |
|                | 68°F<br>20°C       | TC    | 18335            | 19117            | 19826            | 19952            | 20799            | 19410            | 19454            | 19848            | 19974            | 20819            | 20249            | 20264            | 20301            | 20319            | 20837            | 21819            | 21859            | 21893            | 21897            | 21908            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.15             | 1.15             | 1.16             | 1.16             | 1.17             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.16             | 1.16             | 1.16             | 1.16             | 1.17             | 1.18             | 1.18             | 1.18             | 1.18             | 1.18             |
|                | 77°F<br>25°C       | TC    | 17907            | 18769            | 19503            | 19633            | 20510            | 18983            | 19043            | 19525            | 19655            | 20531            | 19843            | 19865            | 19916            | 19938            | 20548            | 21431            | 21496            | 21546            | 21551            | 21571            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.20             | 1.20             | 1.21             | 1.21             | 1.22             | 1.21             | 1.21             | 1.21             | 1.21             | 1.22             | 1.21             | 1.21             | 1.21             | 1.21             | 1.22             | 1.23             | 1.23             | 1.22             | 1.22             | 1.22             |
|                | 82°F<br>27.8°C     | TC    | 17991            | 18909            | 19672            | 19805            | 20712            | 19065            | 19138            | 19689            | 19827            | 20734            | 19951            | 19977            | 20039            | 20063            | 20752            | 21572            | 21653            | 21709            | 21715            | 21739            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.31             | 1.32             | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             |
|                | 86°F<br>30°C       | TC    | 18526            | 19451            | 20246            | 20387            | 21337            | 19537            | 19627            | 20269            | 20411            | 21359            | 20463            | 20486            | 20562            | 20591            | 21377            | 22153            | 22239            | 22292            | 22297            | 22318            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.51             | 1.52             | 1.53             | 1.53             | 1.54             | 1.52             | 1.52             | 1.53             | 1.53             | 1.54             | 1.53             | 1.53             | 1.53             | 1.53             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.54             |
|                | 95°F<br>35°C       | TC    | 19596            | 19702            | 20338            | 20459            | 21267            | 20826            | 20838            | 20845            | 20870            | 21294            | 21720            | 21724            | 21738            | 21740            | 21776            | 23404            | 23395            | 23400            | 23407            | 23438            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.88             | 1.89             | 1.92             | 1.92             | 1.96             | 1.94             | 1.94             | 1.94             | 1.94             | 1.96             | 1.98             | 1.98             | 1.98             | 1.98</           |                  |                  |                  |                  |                  |                  |

Table 33 – 37MURA + 45MULA Heating Performance (18K - 24B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 441              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57°F (13.9°C)                                      | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 617              | -13°F (-25.0°C)                                    | 8919                                | 8741             | 8697             | 8662               | 8584               | 1.58                   | 1.59             | 1.59             | 1.60               | 1.60               |
|                  | -4°F (-20.0°C)                                     | 10522                               | 10311            | 10260            | 10219              | 10127              | 1.64                   | 1.65             | 1.66             | 1.66               | 1.67               |
|                  | 0°F (-17.8°C)                                      | 11352                               | 11125            | 11070            | 11025              | 10926              | 1.68                   | 1.69             | 1.69             | 1.70               | 1.70               |
|                  | 5°F (-15.0°C)                                      | 12390                               | 12143            | 12082            | 12034              | 11925              | 1.72                   | 1.74             | 1.74             | 1.74               | 1.75               |
|                  | 14°F (-10.0°C)                                     | 14157                               | 13873            | 13804            | 13749              | 13625              | 1.74                   | 1.75             | 1.76             | 1.76               | 1.77               |
|                  | 17°F (-8.3°C)                                      | 14745                               | 14450            | 14378            | 14321              | 14192              | 1.74                   | 1.76             | 1.76             | 1.76               | 1.77               |
|                  | 22°F (-5.6°C)                                      | 15088                               | 14787            | 14713            | 14654              | 14522              | 1.75                   | 1.76             | 1.77             | 1.77               | 1.78               |
|                  | 27°F (-2.8°C)                                      | 15432                               | 15123            | 15047            | 14987              | 14852              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |
|                  | 32°F (0.0°C)                                       | 15775                               | 15459            | 15382            | 15320              | 15182              | 1.76                   | 1.78             | 1.78             | 1.79               | 1.79               |
|                  | 35°F (1.7°C)                                       | 15981                               | 15661            | 15583            | 15520              | 15381              | 1.77                   | 1.78             | 1.79             | 1.79               | 1.80               |
|                  | 37°F (2.8°C)                                       | 16815                               | 16479            | 16396            | 16331              | 16184              | 1.76                   | 1.77             | 1.78             | 1.78               | 1.79               |
|                  | 42°F (5.6°C)                                       | 18901                               | 18523            | 18431            | 18357              | 18192              | 1.74                   | 1.75             | 1.76             | 1.76               | 1.77               |
|                  | 44.6°F (7.0°C)                                     | 19736                               | 19341            | 19245            | 19168              | 18995              | 1.73                   | 1.74             | 1.75             | 1.75               | 1.76               |
|                  | 47°F (8.3°C)                                       | 20988                               | 20568            | 20465            | 20383              | 20200              | 1.72                   | 1.73             | 1.73             | 1.74               | 1.74               |
|                  | 52°F (11.1°C)                                      | 19632                               | 19240            | 19144            | 19067              | 18895              | 1.61                   | 1.62             | 1.63             | 1.63               | 1.64               |
|                  | 57°F (13.9°C)                                      | 18277                               | 17911            | 17822            | 17751              | 17591              | 1.50                   | 1.52             | 1.52             | 1.52               | 1.53               |
|                  | 59°F (15.0°C)                                      | 17735                               | 17380            | 17293            | 17224              | 17069              | 1.46                   | 1.47             | 1.48             | 1.48               | 1.48               |
|                  | 62°F (16.7°C)                                      | 16922                               | 16583            | 16500            | 16434              | 16286              | 1.40                   | 1.41             | 1.41             | 1.41               | 1.42               |
|                  | 64.4°F (18.0°C)                                    | 16271                               | 15946            | 15866            | 15802              | 15660              | 1.35                   | 1.36             | 1.36             | 1.36               | 1.37               |
|                  | 69.8°F (21.0°C)                                    | 14807                               | 14511            | 14438            | 14381              | 14251              | 1.23                   | 1.24             | 1.24             | 1.25               | 1.25               |
|                  | 75.2°F (24.0°C)                                    | 13343                               | 13076            | 13011            | 12959              | 12842              | 1.11                   | 1.12             | 1.13             | 1.13               | 1.13               |

Table 34 – 37MURA + 45MULA Cooling Performance (24K - 24A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | TC    |                 | 16758            | 16753            | 16748            | 16845            | 17341            | 17496            | 17487            | 17479            | 17478            | 17465            | 18019            | 18009            | 17997            | 17995            | 17983            | 19007            | 19002            | 18988            | 18984            |
| 529            | -13°F<br>25°C      | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.36            | 1.36             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                |                    | TC    | 18048           | 18041            | 18036            | 18141            | 18675            | 18842            | 18832            | 18823            | 18822            | 18809            | 19405            | 19395            | 19382            | 19379            | 19366            | 20469            | 20464            | 20449            | 20444            | 20413            |
|                | S/T                | 0.78  | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 1.40  | 1.40            | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                | -4°F<br>20°C       | TC    | 18643           | 18635            | 18707            | 18850            | 19372            | 19456            | 19441            | 19430            | 19428            | 19425            | 20027            | 20015            | 19997            | 19994            | 19976            | 21106            | 21100            | 21101            | 21103            | 21119            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.42            | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                | 0°F<br>17.8°C      | TC    | 19192           | 19209            | 19468            | 19557            | 20155            | 20104            | 20108            | 20111            | 20111            | 20210            | 20762            | 20760            | 20766            | 20767            | 20769            | 22003            | 21996            | 21996            | 21998            | 22010            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.43            | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                | 5°F<br>15°C        | TC    | 19321           | 19313            | 19393            | 19563            | 20170            | 20290            | 20279            | 20269            | 20267            | 20257            | 20992            | 20982            | 20966            | 20963            | 20945            | 22312            | 22305            | 22289            | 22284            | 22249            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.38            | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                | 14°F<br>10°C       | TC    | 19388           | 19393            | 19630            | 19743            | 20379            | 20361            | 20363            | 20367            | 20368            | 20464            | 21010            | 21018            | 21032            | 21033            | 21038            | 22408            | 22401            | 22403            | 22408            | 22428            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.35            | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             |
|                | 17°F<br>10°C       | TC    | 19273           | 19299            | 19613            | 19710            | 20354            | 20262            | 20267            | 20270            | 20270            | 20390            | 20976            | 20975            | 20982            | 20983            | 20986            | 22328            | 22322            | 22323            | 22325            | 22341            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.42            | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             |
|                | 23°F<br>5°C        | TC    | 19309           | 19309            | 19347            | 19368            | 19866            | 20235            | 20233            | 20233            | 20234            | 20234            | 20886            | 20884            | 20882            | 20882            | 20884            | 22095            | 22090            | 22085            | 22088            | 22084            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.46            | 1.46             | 1.47             | 1.47             | 1.51             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 35°F<br>1.7°C      | TC    | 17810           | 17810            | 17859            | 17883            | 18391            | 18660            | 18658            | 18658            | 18659            | 18675            | 19257            | 19255            | 19253            | 19254            | 19256            | 20366            | 20361            | 20356            | 20359            | 20356            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.18            | 1.18             | 1.18             | 1.18             | 1.22             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.30             | 1.30             | 1.31             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                | 41°F<br>5°C        | TC    | 16308           | 16308            | 16371            | 16399            | 16904            | 17084            | 17081            | 17082            | 17082            | 17108            | 17628            | 17626            | 17625            | 17625            | 17626            | 18639            | 18635            | 18633            | 18633            | 18630            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.89            | 0.89             | 0.90             | 0.90             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             |
|                | 47°F<br>8.3°C      | TC    | 15944           | 16205            | 16746            | 16842            | 17487            | 16881            | 16891            | 16946            | 16968            | 17508            | 17546            | 17569            | 17579            | 17580            | 17659            | 18810            | 18819            | 18865            | 18870            | 18895            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 50°F<br>10°C       | TC    | 15760           | 16139            | 16707            | 16808            | 17484            | 16722            | 16729            | 16812            | 16844            | 17504            | 17416            | 17434            | 17442            | 17442            | 17558            | 18746            | 18751            | 18788            | 18792            | 18810            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.02            | 1.02             | 1.02             | 1.02             | 1.03             | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             |
|                | 59°F<br>15°C       | TC    | 15590           | 16093            | 16685            | 16790            | 17496            | 16564            | 16570            | 16699            | 16808            | 17516            | 17285            | 17300            | 17304            | 17305            | 17502            | 18664            | 18671            | 18701            | 18704            | 18717            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.03            | 1.04             | 1.04             | 1.04             | 1.05             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 68°F<br>20°C       | TC    | 15391           | 15980            | 16600            | 16710            | 17449            | 16391            | 16399            | 16587            | 16730            | 17469            | 17140            | 17159            | 17167            | 17187            | 17485            | 18563            | 18580            | 18621            | 18626            | 18646            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.06            | 1.06             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.09             | 1.09             | 1.08             | 1.08             | 1.08             |
|                | 77°F<br>25°C       | TC    | 15803           | 16473            | 17129            | 17246            | 18030            | 16846            | 16873            | 17150            | 17267            | 18050            | 17634            | 17657            | 17666            | 17694            | 18067            | 19127            | 19151            | 19199            | 19205            | 19227            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.22            | 1.22             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.24             |
|                | 82°F<br>27.8°C     | TC    | 16778           | 17555            | 18267            | 18393            | 19251            | 17886            | 17923            | 18289            | 18415            | 19266            | 18739            | 18761            | 18791            | 18808            | 19284            | 20350            | 20379            | 20427            | 20432            | 20453            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.52            | 1.53             | 1.54             | 1.54             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.57             | 1.56             | 1.56             | 1.56             | 1.56             |
|                | 86°F<br>30°C       | TC    | 19199           | 19233            | 19646            | 19761            | 20536            | 20427            | 20432            | 20439            | 20440            | 20578            | 21309            | 21311            | 21322            | 21323            | 21333            | 23003            | 22995            | 22997            | 22996            | 23013            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.13            | 2.14             | 2.16             | 2.16             | 2.21             | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                | 95°F<br>35°C       | TC    | 17169           | 17230            | 17727            | 17831            | 18538            | 1826             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 34 – 37MURA + 45MULA Cooling Performance (24K - 24A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 706            | -13°F<br>25°C      | TC    | 21750            | 21740            | 22050            | 22141            | 22750            | 22692            | 22674            | 22659            | 22657            | 22639            | 23371            | 23342            | 23319            | 23316            | 23294            | 24652            | 24645            | 24594            | 24585            | 24533            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.74             | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             |                  |
|                | -4°F<br>20°C       | TC    | 23423            | 23412            | 23746            | 23844            | 24500            | 24438            | 24418            | 24402            | 24400            | 24380            | 25169            | 25137            | 25113            | 25110            | 25086            | 26548            | 26541            | 26486            | 26476            | 26420            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.80             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                | 0°F<br>17.8°C      | TC    | 24200            | 24186            | 24634            | 24737            | 25417            | 25238            | 25210            | 25190            | 25187            | 25441            | 25980            | 25943            | 25910            | 25907            | 25894            | 27377            | 27370            | 27368            | 27372            | 27390            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                | 5°F<br>15°C        | TC    | 24894            | 24979            | 25550            | 25668            | 26459            | 26061            | 26068            | 26070            | 26096            | 26485            | 26895            | 26901            | 26907            | 26908            | 26944            | 28472            | 28463            | 28478            | 28481            | 28494            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 14°F<br>10°C       | TC    | 25080            | 25068            | 25579            | 25699            | 26496            | 26325            | 26302            | 26284            | 26281            | 26527            | 27227            | 27193            | 27165            | 27161            | 27134            | 28951            | 28942            | 28887            | 28877            | 28815            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.77             | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                | 17°F<br>10°C       | TC    | 25083            | 25165            | 25747            | 25872            | 26713            | 26332            | 26343            | 26348            | 26370            | 26741            | 27231            | 27241            | 27252            | 27253            | 27287            | 28960            | 28952            | 28948            | 28953            | 28978            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
|                | 23°F<br>5°C        | TC    | 24999            | 25106            | 25756            | 25883            | 26736            | 26265            | 26272            | 26275            | 26310            | 26765            | 27170            | 27180            | 27187            | 27188            | 27231            | 28890            | 28881            | 28902            | 28906            | 28923            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                | 35°F<br>1.7°C      | TC    | 25065            | 25066            | 25213            | 25283            | 26099            | 26236            | 26235            | 26238            | 26238            | 26308            | 27058            | 27056            | 27057            | 27058            | 27061            | 28581            | 28574            | 28573            | 28572            | 28574            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.87             | 1.87             | 1.89             | 1.89             | 1.97             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 41°F<br>5°C        | TC    | 23117            | 23118            | 23302            | 23464            | 24157            | 24192            | 24192            | 24193            | 24193            | 24278            | 24947            | 24945            | 24947            | 24947            | 24949            | 26347            | 26340            | 26339            | 26337            | 26340            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.51             | 1.51             | 1.52             | 1.54             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | 47°F<br>8.3°C      | TC    | 21168            | 21182            | 21466            | 21562            | 22200            | 22149            | 22148            | 22149            | 22149            | 22251            | 22837            | 22835            | 22837            | 22836            | 22836            | 24115            | 24109            | 24107            | 24106            | 24109            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.14             | 1.14             | 1.17             | 1.17             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.28             | 1.27             | 1.27             | 1.28             | 1.28             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 50°F<br>10°C       | TC    | 20713            | 21283            | 22001            | 22129            | 22987            | 21882            | 21894            | 22045            | 22115            | 23008            | 22736            | 22765            | 22777            | 22779            | 22998            | 24303            | 24367            | 24430            | 24437            | 24468            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
|                | 59°F<br>15°C       | TC    | 20486            | 21204            | 21957            | 22099            | 22989            | 21675            | 21704            | 21951            | 22114            | 23012            | 22569            | 22592            | 22599            | 22632            | 23031            | 24234            | 24283            | 24331            | 24337            | 24357            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             |
|                | 68°F<br>20°C       | TC    | 20250            | 21114            | 21897            | 22037            | 22972            | 21438            | 21486            | 21921            | 22060            | 22995            | 22365            | 22382            | 22422            | 22441            | 23013            | 24098            | 24143            | 24181            | 24184            | 24197            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.33             | 1.33             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.37             | 1.37             | 1.36             | 1.36             | 1.36             |
|                | 77°F<br>25°C       | TC    | 20000            | 20963            | 21783            | 21928            | 22908            | 21202            | 21269            | 21807            | 21952            | 22931            | 22162            | 22187            | 22244            | 22269            | 22950            | 23936            | 24009            | 24064            | 24070            | 24093            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.36             | 1.37             | 1.37             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 82°F<br>27.8°C     | TC    | 20551            | 21600            | 22471            | 22624            | 23660            | 21778            | 21862            | 22491            | 22649            | 23684            | 22791            | 22819            | 22890            | 22919            | 23705            | 24641            | 24734            | 24799            | 24805            | 24832            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.56             | 1.57             | 1.58             | 1.58             | 1.59             | 1.57             | 1.57             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 86°F<br>30°C       | TC    | 21937            | 23032            | 23974            | 24142            | 25266            | 23135            | 23241            | 24001            | 24169            | 25292            | 24231            | 24259            | 24348            | 24383            | 25314            | 26233            | 26334            | 26397            | 26403            | 26428            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.96             | 1.97             | 1.98             | 1.98             | 1.99             | 1.97             | 1.97             | 1.98             | 1.98             | 1.99             | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 2.01             | 2.01             | 2.01             | 2.00             | 2.00             |
|                | 95°F<br>35°C       | TC    | 24905            | 25039            | 25848            | 26001            | 27029            | 26468            | 26484            | 26492            | 26523            | 27063            | 27604            | 27610            | 27627            | 27629            | 27675            | 29745            | 29733            | 29740            | 29748            | 29788            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.74             | 2.74             | 2.79             | 2.80             | 2.85             | 2.82             | 2.82             | 2.82             | 2.82             | 2.85             | 2.89             | 2.89             | 2.89             | 2.89             | 2.89             |                  |                  |                  |                  |                  |

Table 35 – 37MURA + 45MULA Heating Performance (24K - 24A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57°F (13.9°C)                                      | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 706              | -13°F (-25.0°C)                                    | 16379                               | 16052            | 15972            | 15908              | 15765              | 2.84                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | -4°F (-20.0°C)                                     | 19452                               | 19063            | 18967            | 18891              | 18721              | 2.91                   | 2.94             | 2.94             | 2.95               | 2.96               |
|                  | 0°F (-17.8°C)                                      | 20760                               | 20344            | 20243            | 20162              | 19980              | 2.74                   | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 5°F (-15.0°C)                                      | 22394                               | 21947            | 21837            | 21749              | 21554              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 14°F (-10.0°C)                                     | 23499                               | 23029            | 22914            | 22822              | 22617              | 2.97                   | 2.99             | 3.00             | 3.01               | 3.02               |
|                  | 17°F (-8.3°C)                                      | 23868                               | 23390            | 23273            | 23180              | 22972              | 3.12                   | 3.14             | 3.15             | 3.15               | 3.17               |
|                  | 22°F (-5.6°C)                                      | 23912                               | 23434            | 23317            | 23224              | 23015              | 2.98                   | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 27°F (-2.8°C)                                      | 23957                               | 23478            | 23360            | 23267              | 23058              | 2.84                   | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 32°F (0.0°C)                                       | 24002                               | 23522            | 23404            | 23310              | 23101              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 35°F (1.7°C)                                       | 24029                               | 23548            | 23430            | 23336              | 23126              | 2.63                   | 2.65             | 2.65             | 2.66               | 2.67               |
|                  | 37°F (2.8°C)                                       | 25179                               | 24675            | 24552            | 24453              | 24233              | 2.66                   | 2.68             | 2.68             | 2.69               | 2.70               |
|                  | 42°F (5.6°C)                                       | 28054                               | 27493            | 27355            | 27246              | 27001              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F (7.0°C)                                     | 29204                               | 28620            | 28477            | 28363              | 28107              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 30929                               | 30310            | 30159            | 30038              | 29768              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 52°F (11.1°C)                                      | 29438                               | 28849            | 28705            | 28590              | 28333              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 57°F (13.9°C)                                      | 27946                               | 27388            | 27251            | 27142              | 26897              | 2.54                   | 2.56             | 2.56             | 2.57               | 2.58               |
|                  | 59°F (15.0°C)                                      | 27350                               | 26803            | 26669            | 26562              | 26323              | 2.48                   | 2.50             | 2.50             | 2.51               | 2.52               |
|                  | 62°F (16.7°C)                                      | 26455                               | 25926            | 25797            | 25693              | 25462              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 64.4°F (18.0°C)                                    | 25740                               | 25225            | 25099            | 24998              | 24773              | 2.33                   | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 69.8°F (21.0°C)                                    | 24129                               | 23647            | 23528            | 23434              | 23223              | 2.18                   | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 75.2°F (24.0°C)                                    | 22519                               | 22068            | 21958            | 21870              | 21673              | 2.02                   | 2.04             | 2.05             | 2.05               | 2.06               |

Table 36 – 37MURA + 45MULA Cooling Performance (24K - 24B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 529            | -13°F<br>25°C      | TC    | 16758           | 16753            | 16748            | 16845            | 17341            | 17496            | 17487            | 17479            | 17478            | 17465            | 18019            | 18009            | 17997            | 17995            | 17983            | 19007            | 19002            | 18988            | 18984            | 18955            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.36            | 1.36             | 1.36             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                | -4°F<br>20°C       | TC    | 18048           | 18041            | 18036            | 18141            | 18675            | 18842            | 18832            | 18823            | 18822            | 18809            | 19405            | 19395            | 19382            | 19379            | 19366            | 20469            | 20464            | 20449            | 20444            | 20413            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.40            | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
|                | 0°F<br>17.8°C      | TC    | 18643           | 18635            | 18707            | 18850            | 19372            | 19456            | 19441            | 19430            | 19428            | 19425            | 20027            | 20015            | 19997            | 19994            | 19976            | 21106            | 21100            | 21101            | 21103            | 21119            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.42            | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             |
|                | 5°F<br>15°C        | TC    | 19192           | 19209            | 19468            | 19557            | 20155            | 20104            | 20108            | 20111            | 20111            | 20210            | 20762            | 20760            | 20766            | 20767            | 20769            | 22003            | 21996            | 21996            | 21998            | 22010            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.43            | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             |
|                | 14°F<br>10°C       | TC    | 19321           | 19313            | 19393            | 19563            | 20170            | 20290            | 20279            | 20269            | 20267            | 20257            | 20992            | 20982            | 20966            | 20963            | 20945            | 22312            | 22305            | 22289            | 22284            | 22249            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.38            | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             |
|                | 17°F<br>10°C       | TC    | 19388           | 19393            | 19630            | 19743            | 20379            | 20361            | 20363            | 20367            | 20368            | 20464            | 21010            | 21018            | 21032            | 21033            | 21038            | 22408            | 22401            | 22403            | 22408            | 22428            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.35            | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             |
|                | 23°F<br>5°C        | TC    | 19273           | 19299            | 19613            | 19710            | 20354            | 20262            | 20267            | 20270            | 20270            | 20390            | 20976            | 20975            | 20982            | 20983            | 20986            | 22328            | 22322            | 22323            | 22325            | 22341            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.42            | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             |
|                | 35°F<br>1.7°C      | TC    | 19309           | 19309            | 19347            | 19368            | 19866            | 20235            | 20233            | 20233            | 20234            | 20234            | 20886            | 20884            | 20882            | 20882            | 20884            | 22095            | 22090            | 22085            | 22088            | 22084            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.46            | 1.46             | 1.47             | 1.47             | 1.51             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 41°F<br>5°C        | TC    | 17810           | 17810            | 17859            | 17883            | 18391            | 18660            | 18658            | 18658            | 18659            | 18675            | 19257            | 19255            | 19253            | 19254            | 19256            | 20366            | 20361            | 20356            | 20359            | 20356            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.18            | 1.18             | 1.18             | 1.18             | 1.22             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.31             | 1.31             | 1.30             | 1.30             | 1.31             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             |
|                | 47°F<br>8.3°C      | TC    | 16308           | 16308            | 16371            | 16399            | 16904            | 17084            | 17081            | 17082            | 17082            | 17108            | 17628            | 17626            | 17625            | 17625            | 17626            | 18639            | 18635            | 18633            | 18633            | 18630            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 0.89            | 0.89             | 0.90             | 0.90             | 0.94             | 0.95             | 0.95             | 0.95             | 0.95             | 0.95             | 0.99             | 0.99             | 0.99             | 0.99             | 0.99             | 1.08             | 1.08             | 1.08             | 1.08             | 1.08             |
|                | 50°F<br>10°C       | TC    | 15944           | 16205            | 16746            | 16842            | 17487            | 16881            | 16891            | 16946            | 16968            | 17508            | 17546            | 17569            | 17579            | 17580            | 17659            | 18810            | 18819            | 18865            | 18870            | 18895            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             |
|                | 59°F<br>15°C       | TC    | 15760           | 16139            | 16707            | 16808            | 17484            | 16722            | 16729            | 16812            | 16844            | 17504            | 17416            | 17434            | 17442            | 17442            | 17558            | 18746            | 18751            | 18788            | 18792            | 18810            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.02            | 1.02             | 1.02             | 1.02             | 1.03             | 1.02             | 1.02             | 1.02             | 1.02             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             | 1.03             |
|                | 68°F<br>20°C       | TC    | 15590           | 16093            | 16685            | 16790            | 17496            | 16564            | 16570            | 16699            | 16808            | 17516            | 17285            | 17300            | 17304            | 17305            | 17502            | 18664            | 18671            | 18701            | 18704            | 18717            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.03            | 1.04             | 1.04             | 1.04             | 1.05             | 1.04             | 1.04             | 1.04             | 1.04             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.05             | 1.06             | 1.06             | 1.06             | 1.06             | 1.06             |
|                | 77°F<br>25°C       | TC    | 15391           | 15980            | 16600            | 16710            | 17449            | 16391            | 16399            | 16587            | 16730            | 17469            | 17140            | 17159            | 17167            | 17187            | 17485            | 18563            | 18580            | 18621            | 18626            | 18646            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.06            | 1.06             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.07             | 1.07             | 1.07             | 1.07             | 1.08             | 1.09             | 1.09             | 1.08             | 1.08             | 1.08             |
|                | 82°F<br>27.8°C     | TC    | 15803           | 16473            | 17129            | 17246            | 18030            | 16846            | 16873            | 17150            | 17267            | 18050            | 17634            | 17657            | 17666            | 17694            | 18067            | 19127            | 19151            | 19199            | 19205            | 19227            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.22            | 1.22             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.24             | 1.25             | 1.25             | 1.25             | 1.25             | 1.24             |
|                | 86°F<br>30°C       | TC    | 16778           | 17555            | 18267            | 18393            | 19251            | 17886            | 17923            | 18289            | 18415            | 19266            | 18739            | 18761            | 18791            | 18808            | 19284            | 20350            | 20379            | 20427            | 20432            | 20453            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.52            | 1.53             | 1.54             | 1.54             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.57             | 1.56             | 1.56             | 1.56             | 1.56             |
|                | 95°F<br>35°C       | TC    | 19199           | 19233            | 19646            | 19761            | 20536            | 20427            | 20432            | 20439            | 20440            | 20578            | 21309            | 21311            | 21322            | 21323            | 21333            | 23003            | 22995            | 22997            | 22996            | 23013            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.13            | 2.14             | 2.16             | 2.16             | 2.21             | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             | 2.34             | 2.34             | 2.34             | 2.3              |                  |

Table 36 – 37MURA + 45MULA Cooling Performance (24K - 24B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 706            | -13°F<br>25°C      | TC    | 21750           | 21740            | 22050            | 22141            | 22750            | 22692            | 22674            | 22659            | 22657            | 22639            | 23371            | 23342            | 23319            | 23316            | 23294            | 24652            | 24645            | 24594            | 24585            | 24533            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.74            | 1.74             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             |                  |
|                | -4°F<br>20°C       | TC    | 23423           | 23412            | 23746            | 23844            | 24500            | 24438            | 24418            | 24402            | 24400            | 24380            | 25169            | 25137            | 25113            | 25110            | 25086            | 26548            | 26541            | 26486            | 26476            | 26420            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.80            | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
|                | 0°F<br>17.8°C      | TC    | 24200           | 24186            | 24634            | 24737            | 25417            | 25238            | 25210            | 25190            | 25187            | 25441            | 25980            | 25943            | 25910            | 25907            | 25894            | 27377            | 27370            | 27368            | 27372            | 27390            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.81            | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             |
|                | 5°F<br>15°C        | TC    | 24894           | 24979            | 25550            | 25668            | 26459            | 26061            | 26068            | 26070            | 26096            | 26485            | 26895            | 26901            | 26907            | 26908            | 26944            | 28472            | 28463            | 28478            | 28481            | 28494            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.83            | 1.83             | 1.83             | 1.83             | 1.84             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 14°F<br>10°C       | TC    | 25080           | 25068            | 25579            | 25699            | 26496            | 26325            | 26302            | 26284            | 26281            | 26527            | 27227            | 27193            | 27165            | 27161            | 27134            | 28951            | 28942            | 28887            | 28877            | 28815            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.77            | 1.77             | 1.77             | 1.77             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |
|                | 17°F<br>10°C       | TC    | 25083           | 25165            | 25747            | 25872            | 26713            | 26332            | 26343            | 26348            | 26370            | 26741            | 27231            | 27241            | 27252            | 27253            | 27287            | 28960            | 28952            | 28948            | 28953            | 28978            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.73            | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |
|                | 23°F<br>5°C        | TC    | 24999           | 25106            | 25756            | 25883            | 26736            | 26265            | 26272            | 26275            | 26310            | 26765            | 27170            | 27180            | 27187            | 27188            | 27231            | 28890            | 28881            | 28902            | 28906            | 28923            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.82            | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             |
|                | 35°F<br>1.7°C      | TC    | 25065           | 25066            | 25213            | 25283            | 26099            | 26236            | 26235            | 26238            | 26238            | 26308            | 27058            | 27056            | 27057            | 27058            | 27061            | 28581            | 28574            | 28573            | 28572            | 28574            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.87            | 1.87             | 1.89             | 1.89             | 1.97             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 41°F<br>5°C        | TC    | 23117           | 23118            | 23302            | 23464            | 24157            | 24192            | 24192            | 24193            | 24193            | 24278            | 24947            | 24945            | 24947            | 24947            | 24949            | 26347            | 26340            | 26339            | 26337            | 26340            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.51            | 1.51             | 1.52             | 1.54             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.61             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             |
|                | 47°F<br>8.3°C      | TC    | 21168           | 21182            | 21466            | 21562            | 22200            | 22149            | 22148            | 22149            | 22149            | 22251            | 22837            | 22835            | 22837            | 22836            | 22836            | 24115            | 24109            | 24107            | 24106            | 24109            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.14            | 1.14             | 1.17             | 1.17             | 1.22             | 1.22             | 1.22             | 1.22             | 1.22             | 1.23             | 1.28             | 1.27             | 1.27             | 1.28             | 1.28             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 50°F<br>10°C       | TC    | 20713           | 21283            | 22001            | 22129            | 22987            | 21882            | 21894            | 22045            | 22115            | 23008            | 22736            | 22765            | 22777            | 22779            | 22998            | 24303            | 24367            | 24430            | 24437            | 24468            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.29            | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
|                | 59°F<br>15°C       | TC    | 20486           | 21204            | 21957            | 22099            | 22989            | 21675            | 21704            | 21951            | 22114            | 23012            | 22569            | 22592            | 22599            | 22632            | 23031            | 24234            | 24283            | 24331            | 24337            | 24357            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.31            | 1.31             | 1.31             | 1.31             | 1.32             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             |
|                | 68°F<br>20°C       | TC    | 20250           | 21114            | 21897            | 22037            | 22972            | 21438            | 21486            | 21921            | 22060            | 22995            | 22365            | 22382            | 22422            | 22441            | 23013            | 24098            | 24143            | 24181            | 24184            | 24197            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.33            | 1.33             | 1.34             | 1.34             | 1.35             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             | 1.37             | 1.37             | 1.36             | 1.36             | 1.36             |
|                | 77°F<br>25°C       | TC    | 20000           | 20963            | 21783            | 21928            | 22908            | 21202            | 21269            | 21807            | 21952            | 22931            | 22162            | 22187            | 22244            | 22269            | 22950            | 23936            | 24009            | 24064            | 24070            | 24093            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 1.36            | 1.37             | 1.37             | 1.38             | 1.38             | 1.37             | 1.37             | 1.37             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.38             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 82°F<br>27.8°C     | TC    | 20551           | 21600            | 22471            | 22624            | 23660            | 21778            | 21862            | 22491            | 22649            | 23684            | 22791            | 22819            | 22890            | 22919            | 23705            | 24641            | 24734            | 24799            | 24805            | 24832            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 1.56            | 1.57             | 1.58             | 1.58             | 1.59             | 1.57             | 1.57             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 86°F<br>30°C       | TC    | 21937           | 23032            | 23974            | 24142            | 25266            | 23135            | 23241            | 24001            | 24169            | 25292            | 24231            | 24259            | 24348            | 24383            | 25314            | 26233            | 26334            | 26397            | 26403            | 26428            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 1.96            | 1.97             | 1.98             | 1.98             | 1.99             | 1.97             | 1.97             | 1.98             | 1.98             | 1.99             | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 2.01             | 2.01             | 2.01             | 2.00             | 2.00             |
|                | 95°F<br>35°C       | TC    | 24905           | 25039            | 25848            | 26001            | 27029            | 26468            | 26484            | 26492            | 26523            | 27063            | 27604            | 27610            | 27627            | 27629            | 27675            | 29745            | 29733            | 29740            | 29748            | 29788            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.74            | 2.74             | 2.79             | 2.80             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 37 – 37MURA + 45MULA Heating Performance (24K - 24B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 529              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 706              | -13°F (-25.0°C)                                    | 16379                               | 16052            | 15972            | 15908              | 15765              | 2.84                   | 2.86             | 2.86             | 2.87               | 2.88               |
|                  | -4°F (-20.0°C)                                     | 19452                               | 19063            | 18967            | 18891              | 18721              | 2.91                   | 2.94             | 2.94             | 2.95               | 2.96               |
|                  | 0°F (-17.8°C)                                      | 20760                               | 20344            | 20243            | 20162              | 19980              | 2.74                   | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 5°F (-15.0°C)                                      | 22394                               | 21947            | 21837            | 21749              | 21554              | 2.53                   | 2.55             | 2.56             | 2.56               | 2.57               |
|                  | 14°F (-10.0°C)                                     | 23499                               | 23029            | 22914            | 22822              | 22617              | 2.97                   | 2.99             | 3.00             | 3.01               | 3.02               |
|                  | 17°F (-8.3°C)                                      | 23868                               | 23390            | 23273            | 23180              | 22972              | 3.12                   | 3.14             | 3.15             | 3.15               | 3.17               |
|                  | 22°F (-5.6°C)                                      | 23912                               | 23434            | 23317            | 23224              | 23015              | 2.98                   | 3.00             | 3.01             | 3.02               | 3.03               |
|                  | 27°F (-2.8°C)                                      | 23957                               | 23478            | 23360            | 23267              | 23058              | 2.84                   | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 32°F (0.0°C)                                       | 24002                               | 23522            | 23404            | 23310              | 23101              | 2.71                   | 2.73             | 2.74             | 2.74               | 2.75               |
|                  | 35°F (1.7°C)                                       | 24029                               | 23548            | 23430            | 23336              | 23126              | 2.63                   | 2.65             | 2.65             | 2.66               | 2.67               |
|                  | 37°F (2.8°C)                                       | 25179                               | 24675            | 24552            | 24453              | 24233              | 2.66                   | 2.68             | 2.68             | 2.69               | 2.70               |
|                  | 42°F (5.6°C)                                       | 28054                               | 27493            | 27355            | 27246              | 27001              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 44.6°F (7.0°C)                                     | 29204                               | 28620            | 28477            | 28363              | 28107              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 30929                               | 30310            | 30159            | 30038              | 29768              | 2.82                   | 2.84             | 2.84             | 2.85               | 2.86               |
|                  | 52°F (11.1°C)                                      | 29438                               | 28849            | 28705            | 28590              | 28333              | 2.68                   | 2.70             | 2.70             | 2.71               | 2.72               |
|                  | 57F (13.9°C)                                       | 27946                               | 27388            | 27251            | 27142              | 26897              | 2.54                   | 2.56             | 2.56             | 2.57               | 2.58               |
|                  | 59°F (15.0°C)                                      | 27350                               | 26803            | 26669            | 26562              | 26323              | 2.48                   | 2.50             | 2.50             | 2.51               | 2.52               |
|                  | 62°F (16.7°C)                                      | 26455                               | 25926            | 25797            | 25693              | 25462              | 2.39                   | 2.41             | 2.42             | 2.42               | 2.43               |
|                  | 64.4°F (18.0°C)                                    | 25740                               | 25225            | 25099            | 24998              | 24773              | 2.33                   | 2.35             | 2.35             | 2.36               | 2.37               |
|                  | 69.8°F (21.0°C)                                    | 24129                               | 23647            | 23528            | 23434              | 23223              | 2.18                   | 2.19             | 2.20             | 2.20               | 2.21               |
|                  | 75.2°F (24.0°C)                                    | 22519                               | 22068            | 21958            | 21870              | 21673              | 2.02                   | 2.04             | 2.05             | 2.05               | 2.06               |

Table 38 – 37MURA + 45MULA Cooling Performance (30K - 36A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 507            | -13°F<br>25°C      | TC    | 20569           | 20562            | 20556            | 20676            | 21284            | 21475            | 21463            | 21453            | 21452            | 21437            | 22116            | 22104            | 22090            | 22087            | 22072            | 23329            | 23323            | 23306            | 23300            | 23265            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.20            | 1.20             | 1.20             | 1.20             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             | 1.19             |
|                | -4°F<br>20°C       | TC    | 22151           | 22144            | 22137            | 22266            | 22921            | 23127            | 23114            | 23104            | 23102            | 23086            | 23817            | 23804            | 23789            | 23786            | 23770            | 25124            | 25117            | 25099            | 25092            | 25055            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.24            | 1.24             | 1.24             | 1.24             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             | 1.23             |
|                | 0°F<br>17.8°C      | TC    | 22882           | 22872            | 22961            | 23136            | 23777            | 23880            | 23862            | 23848            | 23846            | 23842            | 24580            | 24566            | 24544            | 24540            | 24519            | 25905            | 25898            | 25899            | 25902            | 25921            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.25            | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.25             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             |
|                | 5°F<br>15°C        | TC    | 23555           | 23577            | 23895            | 24004            | 24738            | 24676            | 24681            | 24683            | 24684            | 24805            | 25483            | 25481            | 25488            | 25488            | 25492            | 27006            | 26998            | 26998            | 27000            | 27015            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.26            | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.26             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.27             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             |
|                | 14°F<br>10°C       | TC    | 23275           | 23266            | 23363            | 23567            | 24298            | 24443            | 24429            | 24418            | 24416            | 24403            | 25288            | 25276            | 25257            | 25253            | 25232            | 26878            | 26870            | 26850            | 26844            | 26803            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.31            | 1.31             | 1.31             | 1.31             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.30             | 1.31             | 1.31             | 1.31             |
|                | 17°F<br>10°C       | TC    | 23211           | 23217            | 23501            | 23637            | 24398            | 24376            | 24378            | 24383            | 24384            | 24500            | 25153            | 25163            | 25180            | 25181            | 25187            | 26827            | 26818            | 26821            | 26826            | 26851            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.31            | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.31             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             |
|                | 23°F<br>5°C        | TC    | 24063           | 24097            | 24489            | 24609            | 25414            | 25299            | 25305            | 25308            | 25309            | 25459            | 26191            | 26190            | 26198            | 26199            | 26203            | 27879            | 27871            | 27872            | 27875            | 27894            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.47            | 1.47             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.51             | 1.51             | 1.51             | 1.51             | 1.51             |
|                | 35°F<br>1.7°C      | TC    | 26107           | 26108            | 26159            | 26188            | 26861            | 27360            | 27356            | 27357            | 27358            | 27359            | 28239            | 28237            | 28234            | 28234            | 28238            | 29875            | 29868            | 29861            | 29866            | 29860            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.67            | 1.67             | 1.67             | 1.67             | 1.72             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 41°F<br>5°C        | TC    | 24135           | 24136            | 24202            | 24235            | 24923            | 25287            | 25284            | 25285            | 25286            | 25308            | 26096            | 26094            | 26091            | 26092            | 26095            | 27599            | 27592            | 27587            | 27590            | 27586            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.46            | 1.46             | 1.46             | 1.47             | 1.52             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             |
|                | 47°F<br>8.3°C      | TC    | 22159           | 22159            | 22245            | 22283            | 22969            | 23214            | 23211            | 23211            | 23211            | 23246            | 23953            | 23950            | 23949            | 23949            | 23950            | 25328            | 25321            | 25319            | 25319            | 25315            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.25            | 1.25             | 1.26             | 1.26             | 1.31             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
|                | 50°F<br>10°C       | TC    | 21677           | 22031            | 22767            | 22898            | 23775            | 22951            | 22964            | 23039            | 23069            | 23803            | 23855            | 23885            | 23899            | 23901            | 24009            | 25573            | 25586            | 25648            | 25655            | 25689            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.41            | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             |
|                | 59°F<br>15°C       | TC    | 21461           | 21977            | 22751            | 22888            | 23809            | 22770            | 22780            | 22893            | 22938            | 23836            | 23716            | 23741            | 23751            | 23752            | 23909            | 25527            | 25534            | 25584            | 25590            | 25615            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.46            | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
|                | 68°F<br>20°C       | TC    | 21264           | 21950            | 22758            | 22901            | 23864            | 22593            | 22600            | 22777            | 22926            | 23891            | 23577            | 23596            | 23603            | 23603            | 23872            | 25458            | 25466            | 25507            | 25512            | 25530            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.51            | 1.51             | 1.52             | 1.52             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |
|                | 77°F<br>25°C       | TC    | 21027           | 21833            | 22679            | 22830            | 23839            | 22394            | 22405            | 22662            | 22857            | 23867            | 23417            | 23444            | 23454            | 23482            | 23888            | 25362            | 25385            | 25441            | 25448            | 25475            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.57            | 1.58             | 1.58             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.61             | 1.61             | 1.61             | 1.61             | 1.60             |
|                | 82°F<br>27.8°C     | TC    | 20988           | 21878            | 22750            | 22905            | 23947            | 22373            | 22410            | 22778            | 22933            | 23974            | 23420            | 23451            | 23463            | 23500            | 23995            | 25403            | 25436            | 25499            | 25507            | 25537            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.70            | 1.70             | 1.71             | 1.71             | 1.72             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.74             | 1.74             | 1.73             | 1.73             | 1.73             |
|                | 86°F<br>30°C       | TC    | 21059           | 22034            | 22928            | 23086            | 24162            | 22449            | 22496            | 22955            | 23114            | 24181            | 23520            | 23548            | 23585            | 23606            | 24203            | 25542            | 25579            | 25639            | 25645            | 25672            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.92            | 1.93             | 1.94             | 1.94             | 1.95             | 1.93             | 1.93             | 1.94             | 1.94             | 1.95             | 1.94             | 1.94             | 1.94             | 1.94             | 1.95             | 1.97             | 1.97             | 1.96             | 1.96             | 1.96             |
|                | 95°F<br>35°C       | TC    | 21483           | 21522            | 21984            | 22113            | 22980            | 22857            | 22863            | 22871            | 22872            | 23027            | 23844            | 23847            | 23859            | 23861            | 23872            | 25741            | 25731            | 25734            | 25733            | 25752            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.32            | 2.33             | 2.35             | 2.36             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.40             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.55             | 2.55             | 2.55             | 2.5              |                  |

Table 38 – 37MURA + 45MULA Cooling Performance (30K - 36A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
| 676            | -13°F<br>25°C      | TC    | 26670            | 26658            | 27038            | 27150            | 27897            | 27826            | 27803            | 27785            | 27783            | 27760            | 28658            | 28622            | 28595            | 28591            | 28563            | 30229            | 30220            | 30158            | 30147            | 30083            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.53             | 1.53             | 1.53             | 1.53             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                | -4°F<br>20°C       | TC    | 28721            | 28708            | 29118            | 29238            | 30043            | 29966            | 29942            | 29923            | 29920            | 29895            | 30862            | 30824            | 30794            | 30790            | 30761            | 32554            | 32545            | 32478            | 32466            | 32397            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.57             | 1.57             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             | 1.58             |
|                | 0°F<br>17.8°C      | TC    | 29674            | 29657            | 30207            | 30333            | 31166            | 30947            | 30913            | 30889            | 30885            | 31196            | 31857            | 31812            | 31772            | 31767            | 31752            | 33570            | 33562            | 33559            | 33564            | 33586            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             |
|                | 5°F<br>15°C        | TC    | 30525            | 30630            | 31330            | 31475            | 32445            | 31957            | 31965            | 31967            | 32000            | 32477            | 32979            | 32987            | 32994            | 32995            | 33039            | 34913            | 34903            | 34921            | 34925            | 34940            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.61             | 1.61             | 1.61             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.67             | 1.66             | 1.67             | 1.67             | 1.67             |
|                | 14°F<br>10°C       | TC    | 30185            | 30170            | 30786            | 30930            | 31889            | 31684            | 31656            | 31634            | 31630            | 31927            | 32769            | 32728            | 32695            | 32689            | 32656            | 34844            | 34833            | 34766            | 34754            | 34680            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             |
|                | 17°F<br>10°C       | TC    | 30001            | 30099            | 30795            | 30945            | 31950            | 31495            | 31508            | 31514            | 31540            | 31985            | 32570            | 32582            | 32595            | 32596            | 32637            | 34639            | 34629            | 34624            | 34630            | 34659            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             |
|                | 23°F<br>5°C        | TC    | 31184            | 31318            | 32128            | 32286            | 33350            | 32763            | 32772            | 32776            | 32819            | 33386            | 33893            | 33904            | 33913            | 33914            | 33969            | 36038            | 36027            | 36052            | 36057            | 36078            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.88             | 1.88             | 1.89             | 1.89             | 1.90             | 1.89             | 1.89             | 1.89             | 1.89             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 35°F<br>1.7°C      | TC    | 33858            | 33859            | 34058            | 34153            | 35255            | 35440            | 35439            | 35442            | 35442            | 35537            | 36550            | 36547            | 36549            | 36550            | 36554            | 38608            | 38599            | 38597            | 38595            | 38599            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.13             | 2.13             | 2.15             | 2.16             | 2.25             | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             | 2.57             | 2.56             | 2.56             | 2.56             | 2.57             |
|                | 41°F<br>5°C        | TC    | 31298            | 31299            | 31548            | 31767            | 32706            | 32754            | 32753            | 32755            | 32755            | 32870            | 33776            | 33773            | 33775            | 33776            | 33778            | 35671            | 35662            | 35660            | 35658            | 35662            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.86             | 1.86             | 1.88             | 1.90             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             | 1.99             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.26             | 2.26             | 2.26             | 2.26             | 2.26             |
|                | 47°F<br>8.3°C      | TC    | 28736            | 28755            | 29141            | 29271            | 30137            | 30068            | 30067            | 30068            | 30068            | 30207            | 31002            | 30999            | 31001            | 31001            | 31001            | 32738            | 32729            | 32727            | 32725            | 32729            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.60             | 1.60             | 1.63             | 1.64             | 1.71             | 1.71             | 1.71             | 1.71             | 1.71             | 1.72             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             |
|                | 50°F<br>10°C       | TC    | 28133            | 28908            | 29883            | 30056            | 31222            | 29722            | 29738            | 29944            | 30038            | 31251            | 30881            | 30921            | 30937            | 30939            | 31237            | 33010            | 33097            | 33182            | 33192            | 33233            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             |
|                | 59°F<br>15°C       | TC    | 27870            | 28847            | 29871            | 30053            | 31276            | 29488            | 29528            | 29863            | 30085            | 31307            | 30704            | 30735            | 30746            | 30790            | 31333            | 32970            | 33036            | 33102            | 33109            | 33137            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.87             | 1.88             | 1.88             | 1.88             | 1.89             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             |
|                | 68°F<br>20°C       | TC    | 27594            | 28772            | 29839            | 30029            | 31303            | 29213            | 29279            | 29872            | 30061            | 31334            | 30476            | 30499            | 30554            | 30580            | 31360            | 32838            | 32899            | 32951            | 32956            | 32973            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 1.93             | 1.94             | 1.96             | 1.96             | 1.97             | 1.95             | 1.95             | 1.96             | 1.96             | 1.97             | 1.96             | 1.96             | 1.96             | 1.96             | 1.97             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             |
|                | 77°F<br>25°C       | TC    | 27298            | 28613            | 29733            | 29931            | 31268            | 28940            | 29032            | 29765            | 29964            | 31299            | 30251            | 30284            | 30362            | 30396            | 31326            | 32672            | 32771            | 32847            | 32855            | 32885            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.01             | 2.02             | 2.03             | 2.03             | 2.04             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.06             | 2.06             | 2.06             | 2.06             | 2.06             |
|                | 82°F<br>27.8°C     | TC    | 27269            | 28661            | 29817            | 30019            | 31394            | 28897            | 29008            | 29843            | 30053            | 31427            | 30241            | 30279            | 30373            | 30410            | 31454            | 32697            | 32819            | 32905            | 32914            | 32950            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.18             | 2.19             | 2.20             | 2.20             | 2.21             | 2.19             | 2.19             | 2.20             | 2.20             | 2.21             | 2.20             | 2.20             | 2.20             | 2.20             | 2.21             | 2.23             | 2.23             | 2.22             | 2.22             | 2.22             |
|                | 86°F<br>30°C       | TC    | 27508            | 28881            | 30063            | 30272            | 31682            | 29010            | 29143            | 30096            | 30307            | 31715            | 30384            | 30419            | 30531            | 30575            | 31742            | 32894            | 33021            | 33100            | 33108            | 33139            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.46             | 2.47             | 2.49             | 2.49             | 2.50             | 2.48             | 2.48             | 2.49             | 2.49             | 2.50             | 2.49             | 2.49             | 2.49             | 2.49             | 2.50             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             |
|                | 95°F<br>35°C       | TC    | 27842            | 27992            | 28897            | 29068            | 30217            | 29590            | 29607            | 29617            | 29652            | 30255            | 30860            | 30866            | 30885            | 30888            | 30940            | 33253            | 33240            | 33247            | 33257            | 33301            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.98             | 2.98             | 3.03             | 3.04             | 3.10             | 3.07             | 3.07             | 3.07             | 3.07             | 3.10             | 3.14             | 3.14             | 3.14</           |                  |                  |                  |                  |                  |                  |                  |

Table 39 – 37MURA + 45MULA Heating Performance (30K - 36A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 507              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 676              | -13°F (-25.0°C)                                    | 14231                               | 13946            | 13877            | 13821              | 13697              | 2.86                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | -4°F (-20.0°C)                                     | 15802                               | 15486            | 15409            | 15347              | 15209              | 2.83                   | 2.85             | 2.86             | 2.86               | 2.87               |
|                  | 0°F (-17.8°C)                                      | 17799                               | 17443            | 17356            | 17286              | 17131              | 2.89                   | 2.91             | 2.92             | 2.92               | 2.93               |
|                  | 5°F (-15.0°C)                                      | 20295                               | 19889            | 19790            | 19710              | 19533              | 2.97                   | 2.99             | 3.00             | 3.00               | 3.01               |
|                  | 14°F (-10.0°C)                                     | 20578                               | 20167            | 20066            | 19986              | 19806              | 2.85                   | 2.87             | 2.87             | 2.88               | 2.89               |
|                  | 17°F (-8.3°C)                                      | 20673                               | 20259            | 20158            | 20077              | 19897              | 2.81                   | 2.83             | 2.83             | 2.84               | 2.85               |
|                  | 22°F (-5.6°C)                                      | 21088                               | 20666            | 20563            | 20481              | 20296              | 2.79                   | 2.81             | 2.81             | 2.82               | 2.83               |
|                  | 27°F (-2.8°C)                                      | 21503                               | 21073            | 20967            | 20884              | 20696              | 2.77                   | 2.79             | 2.79             | 2.80               | 2.81               |
|                  | 32°F (0.0°C)                                       | 21918                               | 21480            | 21372            | 21287              | 21095              | 2.75                   | 2.77             | 2.77             | 2.78               | 2.79               |
|                  | 35°F (1.7°C)                                       | 22167                               | 21724            | 21615            | 21529              | 21335              | 2.74                   | 2.76             | 2.76             | 2.77               | 2.78               |
|                  | 37°F (2.8°C)                                       | 23445                               | 22976            | 22862            | 22770              | 22565              | 2.74                   | 2.76             | 2.77             | 2.77               | 2.79               |
|                  | 42°F (5.6°C)                                       | 26641                               | 26108            | 25978            | 25874              | 25641              | 2.76                   | 2.78             | 2.78             | 2.79               | 2.80               |
|                  | 44.6°F (7.0°C)                                     | 27920                               | 27361            | 27224            | 27115              | 26871              | 2.76                   | 2.79             | 2.79             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 29837                               | 29240            | 29094            | 28978              | 28717              | 2.77                   | 2.79             | 2.80             | 2.81               | 2.82               |
|                  | 52°F (11.1°C)                                      | 28274                               | 27708            | 27570            | 27459              | 27212              | 2.51                   | 2.53             | 2.54             | 2.54               | 2.55               |
|                  | 57F (13.9°C)                                       | 26710                               | 26176            | 26045            | 25941              | 25707              | 2.25                   | 2.27             | 2.27             | 2.28               | 2.29               |
|                  | 59°F (15.0°C)                                      | 26085                               | 25563            | 25435            | 25333              | 25105              | 2.14                   | 2.16             | 2.17             | 2.17               | 2.18               |
|                  | 62°F (16.7°C)                                      | 25146                               | 24643            | 24520            | 24422              | 24202              | 1.99                   | 2.00             | 2.01             | 2.01               | 2.02               |
|                  | 64.4°F (18.0°C)                                    | 24396                               | 23908            | 23788            | 23693              | 23480              | 1.86                   | 1.88             | 1.88             | 1.88               | 1.89               |
|                  | 69.8°F (21.0°C)                                    | 24525                               | 24035            | 23915            | 23819              | 23605              | 1.58                   | 1.59             | 1.60             | 1.60               | 1.61               |
|                  | 75.2°F (24.0°C)                                    | 21866                               | 21429            | 21322            | 21236              | 21045              | 1.30                   | 1.31             | 1.31             | 1.31               | 1.32               |

Table 40 – 37MURA + 45MULA Cooling Performance (30K - 36B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | ID DB |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 662            | -13°F<br>25°C      | TC    | 24142           | 24133            | 24126            | 24267            | 24981            | 25205            | 25191            | 25179            | 25178            | 25160            | 25957            | 25943            | 25926            | 25923            | 25905            | 27381            | 27374            | 27354            | 27347            | 27306            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.29            | 1.29             | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |
|                | -4°F<br>20°C       | TC    | 25999           | 25990            | 25982            | 26133            | 26903            | 27143            | 27129            | 27116            | 27114            | 27096            | 27954            | 27939            | 27921            | 27917            | 27898            | 29488            | 29480            | 29458            | 29451            | 29407            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.33            | 1.33             | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |
|                | 0°F<br>17.8°C      | TC    | 26857           | 26845            | 26949            | 27154            | 27906            | 28028            | 28007            | 27990            | 27988            | 27983            | 28850            | 28833            | 28807            | 28803            | 28777            | 30405            | 30396            | 30397            | 30400            | 30423            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.34            | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |
|                | 5°F<br>15°C        | TC    | 27647           | 27672            | 28045            | 28173            | 29035            | 28961            | 28967            | 28971            | 28971            | 29114            | 29909            | 29907            | 29915            | 29916            | 29919            | 31696            | 31687            | 31687            | 31690            | 31707            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.36            | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |
|                | 14°F<br>10°C       | TC    | 27059           | 27049            | 27161            | 27399            | 28249            | 28417            | 28401            | 28387            | 28385            | 28370            | 29399            | 29386            | 29363            | 29359            | 29334            | 31248            | 31239            | 31216            | 31209            | 31161            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.42            | 1.42             | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             |
|                | 17°F<br>10°C       | TC    | 26898           | 26904            | 27234            | 27391            | 28273            | 28248            | 28250            | 28256            | 28257            | 28391            | 29149            | 29160            | 29179            | 29180            | 29188            | 31088            | 31078            | 31081            | 31087            | 31116            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.43            | 1.43             | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             |
|                | 23°F<br>5°C        | TC    | 26065           | 26101            | 26526            | 26656            | 27528            | 27403            | 27410            | 27414            | 27414            | 27576            | 28369            | 28368            | 28377            | 28378            | 28383            | 30198            | 30189            | 30190            | 30194            | 30215            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.41            | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             |
|                | 35°F<br>1.7°C      | TC    | 24756           | 24757            | 24805            | 24833            | 25471            | 25944            | 25941            | 25942            | 25942            | 25943            | 26778            | 26776            | 26773            | 26773            | 26776            | 28329            | 28322            | 28316            | 28320            | 28315            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.29            | 1.29             | 1.30             | 1.30             | 1.34             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |
|                | 41°F<br>5°C        | TC    | 24292           | 24293            | 24360            | 24393            | 25085            | 25452            | 25449            | 25450            | 25450            | 25473            | 26267            | 26264            | 26262            | 26262            | 26265            | 27779            | 27772            | 27766            | 27769            | 27765            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.29            | 1.29             | 1.30             | 1.30             | 1.34             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             |
|                | 47°F<br>8.3°C      | TC    | 23826           | 23826            | 23918            | 23959            | 24697            | 24960            | 24956            | 24957            | 24957            | 24995            | 25755            | 25752            | 25750            | 25750            | 25752            | 27233            | 27226            | 27224            | 27223            | 27219            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.29            | 1.29             | 1.29             | 1.30             | 1.35             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             |
|                | 50°F<br>10°C       | TC    | 23019           | 23395            | 24177            | 24315            | 25247            | 24372            | 24386            | 24465            | 24497            | 25276            | 25331            | 25364            | 25379            | 25380            | 25495            | 27156            | 27170            | 27235            | 27243            | 27279            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.46            | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.45             |
|                | 59°F<br>15°C       | TC    | 21926           | 22454            | 23244            | 23384            | 24325            | 23264            | 23274            | 23389            | 23434            | 24353            | 24230            | 24255            | 24265            | 24266            | 24427            | 26080            | 26087            | 26138            | 26144            | 26169            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.51            | 1.51             | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |
|                | 68°F<br>20°C       | TC    | 20858           | 21531            | 22323            | 22464            | 23409            | 22162            | 22169            | 22342            | 22488            | 23435            | 23127            | 23146            | 23152            | 23153            | 23416            | 24972            | 24980            | 25020            | 25025            | 25042            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.56            | 1.57             | 1.57             | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
|                | 77°F<br>25°C       | TC    | 19758           | 20515            | 21311            | 21452            | 22400            | 21043            | 21053            | 21295            | 21477            | 22426            | 22003            | 22029            | 22039            | 22064            | 22447            | 23831            | 23852            | 23906            | 23912            | 23937            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.62            | 1.63             | 1.64             | 1.64             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
|                | 82°F<br>27.8°C     | TC    | 19891           | 20734            | 21560            | 21707            | 22694            | 21203            | 21238            | 21586            | 21733            | 22720            | 22195            | 22225            | 22236            | 22271            | 22741            | 24075            | 24106            | 24166            | 24173            | 24201            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.76            | 1.76             | 1.77             | 1.77             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.80             | 1.80             | 1.80             | 1.80             | 1.79             |
|                | 86°F<br>30°C       | TC    | 20915           | 21883            | 22771            | 22928            | 23997            | 22296            | 22342            | 22798            | 22956            | 24015            | 23359            | 23387            | 23424            | 23445            | 24038            | 25367            | 25404            | 25463            | 25470            | 25496            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 1.98            | 1.99             | 2.00             | 2.00             | 2.02             | 2.00             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             |
|                | 95°F<br>35°C       | TC    | 23497           | 23539            | 24044            | 24186            | 25134            | 25000            | 25006            | 25015            | 25016            | 25185            | 26079            | 26082            | 26095            | 26098            | 26109            | 28153            | 28143            | 28146            | 28145            | 28166            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.40            | 2.40             | 2.42             | 2.43             | 2.48             | 2.47             | 2.47             | 2.47             | 2.47             | 2.48             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |
|                | 104°F<br>40°C      | TC    | 23039           | 23               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 40 – 37MURA + 45MULA Cooling Performance (30K - 36B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882            | -13°F<br>25°C      | TC    | 31278           | 31264            | 31710            | 31841            | 32718            | 32634            | 32608            | 32587            | 32584            | 32557            | 33610            | 33568            | 33536            | 33531            | 33499            | 35452            | 35443            | 35370            | 35357            | 35282            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64            | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | -4°F<br>20°C       | TC    | 33684           | 33669            | 34149            | 34291            | 35235            | 35145            | 35116            | 35094            | 35090            | 35061            | 36196            | 36150            | 36116            | 36111            | 36076            | 38179            | 38169            | 38091            | 38076            | 37996            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.70            | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                | 0°F<br>17.8°C      | TC    | 34802           | 34782            | 35427            | 35575            | 36552            | 36295            | 36255            | 36227            | 36222            | 36587            | 37362            | 37309            | 37262            | 37257            | 37239            | 39371            | 39362            | 39358            | 39364            | 39389            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.72            | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                | 5°F<br>15°C        | TC    | 35800           | 35923            | 36744            | 36914            | 38052            | 37479            | 37488            | 37491            | 37530            | 38089            | 38678            | 38687            | 38695            | 38697            | 38748            | 40946            | 40934            | 40955            | 40960            | 40978            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.73            | 1.73             | 1.73             | 1.74             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             |
|                | 14°F<br>10°C       | TC    | 35066           | 35048            | 35764            | 35931            | 37046            | 36807            | 36774            | 36749            | 36745            | 37089            | 38068            | 38020            | 37982            | 37976            | 37937            | 40478            | 40466            | 40388            | 40374            | 40288            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.81            | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             |
|                | 17°F<br>10°C       | TC    | 34740           | 34854            | 35659            | 35833            | 36997            | 36470            | 36485            | 36491            | 36522            | 37037            | 37714            | 37729            | 37744            | 37745            | 37792            | 40110            | 40099            | 40093            | 40100            | 40134            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.82            | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             |
|                | 23°F<br>5°C        | TC    | 33752           | 33897            | 34774            | 34946            | 36097            | 35461            | 35472            | 35476            | 35522            | 36136            | 36684            | 36697            | 36706            | 36707            | 36767            | 39006            | 38994            | 39022            | 39027            | 39050            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.80            | 1.80             | 1.81             | 1.81             | 1.82             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             |
|                | 35°F<br>1.7°C      | TC    | 32082           | 32083            | 32271            | 32361            | 33405            | 33581            | 33580            | 33583            | 33583            | 33672            | 34632            | 34630            | 34632            | 34633            | 34636            | 36582            | 36574            | 36572            | 36570            | 36574            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.66            | 1.66             | 1.67             | 1.67             | 1.74             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             |
|                | 41°F<br>5°C        | TC    | 31478           | 31479            | 31729            | 31950            | 32894            | 32943            | 32942            | 32943            | 32944            | 33059            | 33970            | 33968            | 33970            | 33970            | 33973            | 35876            | 35867            | 35865            | 35863            | 35867            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.65            | 1.65             | 1.67             | 1.68             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 47°F<br>8.3°C      | TC    | 30874           | 30894            | 31309            | 31449            | 32379            | 32305            | 32304            | 32305            | 32305            | 32454            | 33309            | 33306            | 33308            | 33308            | 33308            | 35173            | 35165            | 35162            | 35160            | 35164            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.65            | 1.65             | 1.68             | 1.69             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |
|                | 50°F<br>10°C       | TC    | 29852           | 30674            | 31709            | 31893            | 33130            | 31538            | 31555            | 31773            | 31873            | 33161            | 32768            | 32811            | 32828            | 32830            | 33145            | 35027            | 35119            | 35210            | 35220            | 35264            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.87            | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             |
|                | 59°F<br>15°C       | TC    | 28452           | 29450            | 30495            | 30681            | 31929            | 30103            | 30145            | 30486            | 30714            | 31961            | 31345            | 31377            | 31388            | 31434            | 31987            | 33659            | 33726            | 33793            | 33801            | 33829            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.93            | 1.94             | 1.94             | 1.94             | 1.95             | 1.94             | 1.94             | 1.94             | 1.94             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                | 68°F<br>20°C       | TC    | 27047           | 28202            | 29247            | 29433            | 30682            | 28634            | 28698            | 29279            | 29465            | 30713            | 29872            | 29894            | 29948            | 29974            | 30738            | 32187            | 32246            | 32297            | 32302            | 32319            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.00            | 2.01             | 2.02             | 2.02             | 2.03             | 2.01             | 2.01             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.06             | 2.06             | 2.05             | 2.05             | 2.05             |
|                | 77°F<br>25°C       | TC    | 25631           | 26865            | 27917            | 28103            | 29359            | 27172            | 27259            | 27947            | 28134            | 29388            | 28403            | 28435            | 28508            | 28540            | 29413            | 30677            | 30770            | 30841            | 30848            | 30877            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.08            | 2.09             | 2.10             | 2.10             | 2.11             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             |
|                | 82°F<br>27.8°C     | TC    | 25823           | 27142            | 28236            | 28428            | 29730            | 27365            | 27470            | 28261            | 28460            | 29761            | 28638            | 28674            | 28763            | 28798            | 29787            | 30963            | 31080            | 31161            | 31169            | 31203            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.25            | 2.26             | 2.27             | 2.28             | 2.29             | 2.27             | 2.27             | 2.27             | 2.28             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             |
|                | 86°F<br>30°C       | TC    | 27299           | 28662            | 29834            | 30042            | 31441            | 28789            | 28922            | 29867            | 30077            | 31474            | 30154            | 30188            | 30299            | 30343            | 31501            | 32645            | 32771            | 32849            | 32857            | 32887            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.54            | 2.56             | 2.57             | 2.57             | 2.58             | 2.56             | 2.56             | 2.57             | 2.57             | 2.58             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.61             | 2.60             | 2.60             | 2.60             | 2.60             |
|                | 95°F<br>35°C       | TC    | 30429           | 30593            | 31582            | 31769            | 33024            | 32339            | 32358            | 32368            | 32407            | 33066            | 33727            | 33734            | 33755            | 33758            | 33814            | 36343            | 36329            | 36336            | 36347            | 36395            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 3.07            | 3.08             | 3.13             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 41 – 37MURA + 45MULA Heating Performance (30K - 36B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 662              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 882              | -13°F (-25.0°C)                                    | 15921                               | 15603            | 15525            | 15463              | 15323              | 2.85                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | -4°F (-20.0°C)                                     | 18468                               | 18099            | 18009            | 17937              | 17775              | 2.83                   | 2.85             | 2.86             | 2.87               | 2.88               |
|                  | 0°F (-17.8°C)                                      | 19747                               | 19352            | 19255            | 19178              | 19005              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.99               |
|                  | 5°F (-15.0°C)                                      | 21345                               | 20918            | 20813            | 20730              | 20543              | 3.07                   | 3.10             | 3.11             | 3.11               | 3.12               |
|                  | 14°F (-10.0°C)                                     | 24237                               | 23752            | 23633            | 23539              | 23327              | 2.94                   | 2.97             | 2.97             | 2.98               | 2.99               |
|                  | 17°F (-8.3°C)                                      | 25201                               | 24697            | 24573            | 24475              | 24255              | 2.90                   | 2.92             | 2.93             | 2.93               | 2.94               |
|                  | 22°F (-5.6°C)                                      | 25035                               | 24534            | 24411            | 24314              | 24095              | 2.90                   | 2.92             | 2.93             | 2.93               | 2.94               |
|                  | 27°F (-2.8°C)                                      | 24868                               | 24371            | 24249            | 24152              | 23935              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 32°F (0.0°C)                                       | 24702                               | 24208            | 24087            | 23991              | 23775              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 35°F (1.7°C)                                       | 24602                               | 24110            | 23990            | 23894              | 23679              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 37°F (2.8°C)                                       | 26041                               | 25520            | 25392            | 25291              | 25063              | 2.87                   | 2.89             | 2.89             | 2.90               | 2.91               |
|                  | 42°F (5.6°C)                                       | 29636                               | 29043            | 28898            | 28782              | 28523              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 44.6°F (7.0°C)                                     | 31074                               | 30453            | 30300            | 30179              | 29907              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 33231                               | 32567            | 32404            | 32274              | 31984              | 2.73                   | 2.75             | 2.76             | 2.76               | 2.77               |
|                  | 52°F (11.1°C)                                      | 30167                               | 29564            | 29416            | 29299              | 29035              | 2.47                   | 2.49             | 2.49             | 2.50               | 2.51               |
|                  | 57F (13.9°C)                                       | 27104                               | 26562            | 26429            | 26323              | 26086              | 2.20                   | 2.22             | 2.23             | 2.23               | 2.24               |
|                  | 59°F (15.0°C)                                      | 25878                               | 25361            | 25234            | 25133              | 24907              | 2.10                   | 2.12             | 2.12             | 2.12               | 2.13               |
|                  | 62°F (16.7°C)                                      | 24040                               | 23559            | 23441            | 23348              | 23137              | 1.94                   | 1.96             | 1.96             | 1.96               | 1.97               |
|                  | 64.4°F (18.0°C)                                    | 22569                               | 22118            | 22007            | 21919              | 21722              | 1.81                   | 1.83             | 1.83             | 1.84               | 1.84               |
|                  | 69.8°F (21.0°C)                                    | 22800                               | 22344            | 22233            | 22144              | 21944              | 1.53                   | 1.54             | 1.55             | 1.55               | 1.56               |
|                  | 75.2°F (24.0°C)                                    | 24098                               | 23617            | 23498            | 23404              | 23194              | 1.25                   | 1.26             | 1.26             | 1.26               | 1.27               |

Table 42 – 37MURA + 45MULA Cooling Performance (30K - 36C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB         | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|---------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |               | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | -13°F<br>25°C | TC              | 24142            | 24133            | 24126            | 24267            | 24981            | 25205            | 25191            | 25179            | 25178            | 25160            | 25957            | 25943            | 25926            | 25923            | 25905            | 27381            | 27374            | 27354            | 27347            |
|                | S/T                | 0.77          | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                | PI                 | 1.29          | 1.29            | 1.29             | 1.29             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             | 1.28             |                  |
|                | -4°F<br>20°C       | TC            | 25999           | 25990            | 25982            | 26133            | 26903            | 27143            | 27129            | 27116            | 27114            | 27096            | 27954            | 27939            | 27921            | 27917            | 27898            | 29488            | 29480            | 29458            | 29451            | 29407            |
|                | S/T                | 0.78          | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 1.33          | 1.33            | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.32             | 1.32             | 1.32             | 1.32             | 1.32             | 1.33             | 1.33             | 1.33             | 1.33             | 1.33             |                  |
|                | 0°F<br>17.8°C      | TC            | 26857           | 26845            | 26949            | 27154            | 27906            | 28028            | 28007            | 27990            | 27988            | 27983            | 28850            | 28833            | 28807            | 28803            | 28777            | 30405            | 30396            | 30397            | 30400            | 30423            |
|                | S/T                | 0.78          | 0.89            | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.34          | 1.34            | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.34             | 1.35             | 1.35             | 1.35             | 1.35             | 1.35             |                  |
|                | 5°F<br>15°C        | TC            | 27647           | 27672            | 28045            | 28173            | 29035            | 28961            | 28967            | 28971            | 28971            | 29114            | 29909            | 29907            | 29915            | 29916            | 29919            | 31696            | 31687            | 31687            | 31690            | 31707            |
|                | S/T                | 0.79          | 0.90            | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.36          | 1.36            | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.36             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             |                  |
|                | 14°F<br>10°C       | TC            | 27059           | 27049            | 27161            | 27399            | 28249            | 28417            | 28401            | 28387            | 28385            | 28370            | 29399            | 29386            | 29363            | 29359            | 29334            | 31248            | 31239            | 31216            | 31209            | 31161            |
|                | S/T                | 0.78          | 0.89            | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 1.42          | 1.42            | 1.42             | 1.42             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             |                  |
|                | 17°F<br>10°C       | TC            | 26898           | 26904            | 27234            | 27391            | 28273            | 28248            | 28250            | 28256            | 28257            | 28391            | 29149            | 29160            | 29179            | 29180            | 29188            | 31088            | 31078            | 31081            | 31087            | 31116            |
|                | S/T                | 0.79          | 0.89            | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.43          | 1.43            | 1.43             | 1.43             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.44             |                  |
|                | 23°F<br>5°C        | TC            | 26065           | 26101            | 26526            | 26656            | 27528            | 27403            | 27410            | 27414            | 27414            | 27576            | 28369            | 28368            | 28377            | 28378            | 28383            | 30198            | 30189            | 30190            | 30194            | 30215            |
|                | S/T                | 0.80          | 0.91            | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                | PI                 | 1.41          | 1.41            | 1.41             | 1.41             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.42             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             |                  |
|                | 35°F<br>1.7°C      | TC            | 24756           | 24757            | 24805            | 24833            | 25471            | 25944            | 25941            | 25942            | 25942            | 25943            | 26778            | 26776            | 26773            | 26773            | 26776            | 28329            | 28322            | 28316            | 28320            | 28315            |
|                | S/T                | 0.75          | 0.85            | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                | PI                 | 1.29          | 1.29            | 1.30             | 1.30             | 1.34             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |                  |
|                | 41°F<br>5°C        | TC            | 24292           | 24293            | 24360            | 24393            | 25085            | 25452            | 25449            | 25450            | 25450            | 25473            | 26267            | 26264            | 26262            | 26262            | 26265            | 27779            | 27772            | 27766            | 27769            | 27765            |
|                | S/T                | 0.76          | 0.86            | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                | PI                 | 1.29          | 1.29            | 1.30             | 1.30             | 1.34             | 1.37             | 1.37             | 1.37             | 1.37             | 1.37             | 1.43             | 1.43             | 1.43             | 1.43             | 1.43             | 1.56             | 1.56             | 1.56             | 1.56             | 1.56             |                  |
|                | 47°F<br>8.3°C      | TC            | 23826           | 23826            | 23918            | 23959            | 24697            | 24960            | 24956            | 24957            | 24957            | 24995            | 25755            | 25752            | 25750            | 25750            | 25752            | 27233            | 27226            | 27224            | 27223            | 27219            |
|                | S/T                | 0.77          | 0.87            | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                | PI                 | 1.29          | 1.29            | 1.29             | 1.30             | 1.35             | 1.37             | 1.37             | 1.37             | 1.37             | 1.38             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.57             | 1.57             | 1.57             | 1.57             | 1.57             |                  |
|                | 50°F<br>10°C       | TC            | 23019           | 23395            | 24177            | 24315            | 25247            | 24372            | 24386            | 24465            | 24497            | 25276            | 25331            | 25364            | 25379            | 25380            | 25495            | 27156            | 27170            | 27235            | 27243            | 27279            |
|                | S/T                | 0.87          | 1.00            | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                | PI                 | 1.46          | 1.46            | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.45             |                  |
|                | 59°F<br>15°C       | TC            | 21926           | 22454            | 23244            | 23384            | 24325            | 23264            | 23274            | 23389            | 23434            | 24353            | 24230            | 24255            | 24265            | 24266            | 24427            | 26080            | 26087            | 26138            | 26144            | 26169            |
|                | S/T                | 0.88          | 1.00            | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                | PI                 | 1.51          | 1.51            | 1.51             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             | 1.53             | 1.53             | 1.53             | 1.53             | 1.53             |                  |
|                | 68°F<br>20°C       | TC            | 20858           | 21531            | 22323            | 22464            | 23409            | 22162            | 22169            | 22342            | 22488            | 23435            | 23127            | 23146            | 23152            | 23153            | 23416            | 24972            | 24980            | 25020            | 25025            | 25042            |
|                | S/T                | 0.91          | 1.00            | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                | PI                 | 1.56          | 1.57            | 1.57             | 1.58             | 1.58             | 1.57             | 1.57             | 1.57             | 1.58             | 1.59             | 1.58             | 1.58             | 1.58             | 1.58             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |                  |
|                | 77°F<br>25°C       | TC            | 19758           | 20515            | 21311            | 21452            | 22400            | 21043            | 21053            | 21295            | 21477            | 22426            | 22003            | 22029            | 22039            | 22064            | 22447            | 23831            | 23852            | 23906            | 23912            | 23937            |
|                | S/T                | 0.92          | 1.00            | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                | PI                 | 1.62          | 1.63            | 1.64             | 1.64             | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |                  |
|                | 82°F<br>27.8°C     | TC            | 19891           | 20734            | 21560            | 21707            | 22694            | 21203            | 21238            | 21586            | 21733            | 22720            | 22195            | 22225            | 22236            | 22271            | 22741            | 24075            | 24106            | 24166            | 24173            | 24201            |
|                | S/T                | 0.94          | 1.00            | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                | PI                 | 1.76          | 1.76            | 1.77             | 1.77             | 1.78             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.80             | 1.80             | 1.80             | 1.80             | 1.79             |                  |
|                | 86°F<br>30°C       | TC            | 20915           | 21883            | 22771            | 22928            | 23997            | 22296            | 22342            | 22798            | 22956            | 24015            | 23359            | 23387            | 23424            | 23445            | 24038            | 25367            | 25404            | 25463            | 25470            | 25496            |
|                | S/T                | 0.95          | 1.00            | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                | PI                 | 1.98          | 1.99            | 2.00             | 2.00             | 2.02             | 2.00             | 2.00             | 2.00             | 2.00             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             |                  |
|                | 95°F<br>35°C       | TC            | 23497           | 23539            | 24044            | 24186            | 25134            | 25000            | 25006            | 25015            | 25016            | 25185            | 26079            | 26082            | 26095            | 26098            | 26109            | 28153            | 28143            | 28146            | 28145            | 28166            |
|                | S/T                | 0.80          | 0.91            | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                | PI                 | 2.40          | 2.40            | 2.42             | 2.43             | 2.48             | 2.47             | 2.47             | 2.47             | 2.47             | 2.48             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |                  |
|                | 104°F<br>40°C      | TC            |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 42 – 37MURA + 45MULA Cooling Performance (30K - 36C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 882            | -13°F<br>25°C      | TC    | 31278           | 31264            | 31710            | 31841            | 32718            | 32634            | 32608            | 32587            | 32584            | 32557            | 33610            | 33568            | 33536            | 33531            | 33499            | 35452            | 35443            | 35370            | 35357            | 35282            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.64            | 1.65             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             |
|                | -4°F<br>20°C       | TC    | 33684           | 33669            | 34149            | 34291            | 35235            | 35145            | 35116            | 35094            | 35090            | 35061            | 36196            | 36150            | 36116            | 36111            | 36076            | 38179            | 38169            | 38091            | 38076            | 37996            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.70            | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.69             | 1.69             | 1.69             | 1.69             | 1.69             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |
|                | 0°F<br>17.8°C      | TC    | 34802           | 34782            | 35427            | 35575            | 36552            | 36295            | 36255            | 36227            | 36222            | 36587            | 37362            | 37309            | 37262            | 37257            | 37239            | 39371            | 39362            | 39358            | 39364            | 39389            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.72            | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |
|                | 5°F<br>15°C        | TC    | 35800           | 35923            | 36744            | 36914            | 38052            | 37479            | 37488            | 37491            | 37530            | 38089            | 38678            | 38687            | 38695            | 38697            | 38748            | 40946            | 40934            | 40955            | 40960            | 40978            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.73            | 1.73             | 1.73             | 1.74             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             |
|                | 14°F<br>10°C       | TC    | 35066           | 35048            | 35764            | 35931            | 37046            | 36807            | 36774            | 36749            | 36745            | 37089            | 38068            | 38020            | 37982            | 37976            | 37937            | 40478            | 40466            | 40388            | 40374            | 40288            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.81            | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             | 1.82             |
|                | 17°F<br>10°C       | TC    | 34740           | 34854            | 35659            | 35833            | 36997            | 36470            | 36485            | 36491            | 36522            | 37037            | 37714            | 37729            | 37744            | 37745            | 37792            | 40110            | 40099            | 40093            | 40100            | 40134            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.82            | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.82             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             |
|                | 23°F<br>5°C        | TC    | 33752           | 33897            | 34774            | 34946            | 36097            | 35461            | 35472            | 35476            | 35522            | 36136            | 36684            | 36697            | 36706            | 36707            | 36767            | 39006            | 38994            | 39022            | 39027            | 39050            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.80            | 1.80             | 1.81             | 1.81             | 1.82             | 1.81             | 1.81             | 1.81             | 1.82             | 1.82             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.86             | 1.86             | 1.86             | 1.86             | 1.86             |
|                | 35°F<br>1.7°C      | TC    | 32082           | 32083            | 32271            | 32361            | 33405            | 33581            | 33580            | 33583            | 33583            | 33672            | 34632            | 34630            | 34632            | 34633            | 34636            | 36582            | 36574            | 36572            | 36570            | 36574            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.66            | 1.66             | 1.67             | 1.67             | 1.74             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             |
|                | 41°F<br>5°C        | TC    | 31478           | 31479            | 31729            | 31950            | 32894            | 32943            | 32942            | 32943            | 32944            | 33059            | 33970            | 33968            | 33970            | 33970            | 33973            | 35876            | 35867            | 35865            | 35863            | 35867            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 1.65            | 1.65             | 1.67             | 1.68             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 47°F<br>8.3°C      | TC    | 30874           | 30894            | 31309            | 31449            | 32379            | 32305            | 32304            | 32305            | 32305            | 32454            | 33309            | 33306            | 33308            | 33308            | 33308            | 35173            | 35165            | 35162            | 35160            | 35164            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 1.65            | 1.65             | 1.68             | 1.69             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |
|                | 50°F<br>10°C       | TC    | 29852           | 30674            | 31709            | 31893            | 33130            | 31538            | 31555            | 31773            | 31873            | 33161            | 32768            | 32811            | 32828            | 32830            | 33145            | 35027            | 35119            | 35210            | 35220            | 35264            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 1.87            | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.86             | 1.86             | 1.86             | 1.86             |
|                | 59°F<br>15°C       | TC    | 28452           | 29450            | 30495            | 30681            | 31929            | 30103            | 30145            | 30486            | 30714            | 31961            | 31345            | 31377            | 31388            | 31434            | 31987            | 33659            | 33726            | 33793            | 33801            | 33829            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.93            | 1.94             | 1.94             | 1.94             | 1.95             | 1.94             | 1.94             | 1.94             | 1.94             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
|                | 68°F<br>20°C       | TC    | 27047           | 28202            | 29247            | 29433            | 30682            | 28634            | 28698            | 29279            | 29465            | 30713            | 29872            | 29894            | 29948            | 29974            | 30738            | 32187            | 32246            | 32297            | 32302            | 32319            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.00            | 2.01             | 2.02             | 2.02             | 2.03             | 2.01             | 2.01             | 2.02             | 2.02             | 2.03             | 2.03             | 2.03             | 2.03             | 2.03             | 2.04             | 2.06             | 2.06             | 2.05             | 2.05             | 2.05             |
|                | 77°F<br>25°C       | TC    | 25631           | 26865            | 27917            | 28103            | 29359            | 27172            | 27259            | 27947            | 28134            | 29388            | 28403            | 28435            | 28508            | 28540            | 29413            | 30677            | 30770            | 30841            | 30848            | 30877            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.08            | 2.09             | 2.10             | 2.10             | 2.11             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             |
|                | 82°F<br>27.8°C     | TC    | 25823           | 27142            | 28236            | 28428            | 29730            | 27365            | 27470            | 28261            | 28460            | 29761            | 28638            | 28674            | 28763            | 28798            | 29787            | 30963            | 31080            | 31161            | 31169            | 31203            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.25            | 2.26             | 2.27             | 2.28             | 2.29             | 2.27             | 2.27             | 2.27             | 2.28             | 2.29             | 2.28             | 2.28             | 2.28             | 2.28             | 2.29             | 2.30             | 2.30             | 2.30             | 2.30             | 2.30             |
|                | 86°F<br>30°C       | TC    | 27299           | 28662            | 29834            | 30042            | 31441            | 28789            | 28922            | 29867            | 30077            | 31474            | 30154            | 30188            | 30299            | 30343            | 31501            | 32645            | 32771            | 32849            | 32857            | 32887            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.54            | 2.56             | 2.57             | 2.57             | 2.58             | 2.56             | 2.56             | 2.57             | 2.57             | 2.58             | 2.57             | 2.57             | 2.57             | 2.57             | 2.58             | 2.61             | 2.60             | 2.60             | 2.60             | 2.60             |
|                | 95°F<br>35°C       | TC    | 30429           | 30593            | 31582            | 31769            | 33024            | 32339            | 32358            | 32368            | 32407            | 33066            | 33727            | 33734            | 33755            | 33758            | 33814            | 36343            | 36329            | 36336            | 36347            | 36395            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 3.07            | 3.08             | 3.13             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 43 – 37MURA + 45MULA Heating Performance (30K - 36C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 662              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 882              | -13°F (-25.0°C)                                    | 15921                               | 15603            | 15525            | 15463              | 15323              | 2.85                   | 2.88             | 2.88             | 2.89               | 2.90               |
|                  | -4°F (-20.0°C)                                     | 18468                               | 18099            | 18009            | 17937              | 17775              | 2.83                   | 2.85             | 2.86             | 2.87               | 2.88               |
|                  | 0°F (-17.8°C)                                      | 19747                               | 19352            | 19255            | 19178              | 19005              | 2.94                   | 2.96             | 2.97             | 2.97               | 2.99               |
|                  | 5°F (-15.0°C)                                      | 21345                               | 20918            | 20813            | 20730              | 20543              | 3.07                   | 3.10             | 3.11             | 3.11               | 3.12               |
|                  | 14°F (-10.0°C)                                     | 24237                               | 23752            | 23633            | 23539              | 23327              | 2.94                   | 2.97             | 2.97             | 2.98               | 2.99               |
|                  | 17°F (-8.3°C)                                      | 25201                               | 24697            | 24573            | 24475              | 24255              | 2.90                   | 2.92             | 2.93             | 2.93               | 2.94               |
|                  | 22°F (-5.6°C)                                      | 25035                               | 24534            | 24411            | 24314              | 24095              | 2.90                   | 2.92             | 2.93             | 2.93               | 2.94               |
|                  | 27°F (-2.8°C)                                      | 24868                               | 24371            | 24249            | 24152              | 23935              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 32°F (0.0°C)                                       | 24702                               | 24208            | 24087            | 23991              | 23775              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 35°F (1.7°C)                                       | 24602                               | 24110            | 23990            | 23894              | 23679              | 2.89                   | 2.92             | 2.92             | 2.93               | 2.94               |
|                  | 37°F (2.8°C)                                       | 26041                               | 25520            | 25392            | 25291              | 25063              | 2.87                   | 2.89             | 2.89             | 2.90               | 2.91               |
|                  | 42°F (5.6°C)                                       | 29636                               | 29043            | 28898            | 28782              | 28523              | 2.80                   | 2.82             | 2.83             | 2.83               | 2.84               |
|                  | 44.6°F (7.0°C)                                     | 31074                               | 30453            | 30300            | 30179              | 29907              | 2.77                   | 2.79             | 2.80             | 2.80               | 2.81               |
|                  | 47°F (8.3°C)                                       | 33231                               | 32567            | 32404            | 32274              | 31984              | 2.73                   | 2.75             | 2.76             | 2.76               | 2.77               |
|                  | 52°F (11.1°C)                                      | 30167                               | 29564            | 29416            | 29299              | 29035              | 2.47                   | 2.49             | 2.49             | 2.50               | 2.51               |
|                  | 57F (13.9°C)                                       | 27104                               | 26562            | 26429            | 26323              | 26086              | 2.20                   | 2.22             | 2.23             | 2.23               | 2.24               |
|                  | 59°F (15.0°C)                                      | 25878                               | 25361            | 25234            | 25133              | 24907              | 2.10                   | 2.12             | 2.12             | 2.12               | 2.13               |
|                  | 62°F (16.7°C)                                      | 24040                               | 23559            | 23441            | 23348              | 23137              | 1.94                   | 1.96             | 1.96             | 1.96               | 1.97               |
|                  | 64.4°F (18.0°C)                                    | 22569                               | 22118            | 22007            | 21919              | 21722              | 1.81                   | 1.83             | 1.83             | 1.84               | 1.84               |
|                  | 69.8°F (21.0°C)                                    | 22800                               | 22344            | 22233            | 22144              | 21944              | 1.53                   | 1.54             | 1.55             | 1.55               | 1.56               |
|                  | 75.2°F (24.0°C)                                    | 24098                               | 23617            | 23498            | 23404              | 23194              | 1.25                   | 1.26             | 1.26             | 1.26               | 1.27               |

Table 44 – 37MURA + 45MULA Cooling Performance (36K - 36A)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB         | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|---------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |               | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | -13°F<br>25°C | TC              | 23715            | 23707            | 23700            | 23838            | 24540            | 24759            | 24746            | 24735            | 24733            | 24715            | 25498            | 25485            | 25468            | 25465            | 25447            | 26897            | 26890            | 26870            | 26864            |
| -4°F<br>20°C   | S/T                | 0.77          | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |                  |
|                | PI                 | 1.63          | 1.63            | 1.63             | 1.63             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             |                  |
|                | TC                 | 25539         | 25530           | 25523            | 25671            | 26427            | 26664            | 26649            | 26637            | 26635            | 26617            | 27460            | 27445            | 27427            | 27424            | 27405            | 28967            | 28959            | 28937            | 28930            | 28887            |                  |
| 0°F<br>17.8°C  | S/T                | 0.78          | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 1.69          | 1.69            | 1.69             | 1.69             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |                  |
|                | TC                 | 26382         | 26371           | 26473            | 26675            | 27413            | 27533            | 27512            | 27496            | 27493            | 27488            | 28340            | 28324            | 28298            | 28294            | 28269            | 29867            | 29859            | 29860            | 29863            | 29885            |                  |
| 5°F<br>15°C    | S/T                | 0.78          | 0.89            | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.71          | 1.71            | 1.71             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             | 1.72             | 1.72             | 1.72             | 1.72             | 1.72             |                  |
|                | TC                 | 27158         | 27183           | 27549            | 27675            | 28522            | 28450            | 28455            | 28459            | 28459            | 28599            | 29381            | 29378            | 29386            | 29387            | 29390            | 31136            | 31127            | 31127            | 31130            | 31147            |                  |
| 14°F<br>10°C   | S/T                | 0.79          | 0.90            | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.72          | 1.72            | 1.72             | 1.72             | 1.73             | 1.72             | 1.72             | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |                  |
|                | TC                 | 26778         | 26768           | 26879            | 27114            | 27956            | 28122            | 28106            | 28093            | 28091            | 28076            | 29094            | 29080            | 29058            | 29054            | 29030            | 30924            | 30914            | 30892            | 30885            | 30838            |                  |
| 17°F<br>10°C   | S/T                | 0.78          | 0.89            | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 1.75          | 1.75            | 1.75             | 1.75             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             |                  |
|                | TC                 | 26685         | 26692           | 27019            | 27175            | 28050            | 28025            | 28028            | 28033            | 28034            | 28167            | 28919            | 28930            | 28949            | 28950            | 28957            | 30842            | 30833            | 30836            | 30842            | 30870            |                  |
| 23°F<br>5°C    | S/T                | 0.79          | 0.89            | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |                  |
|                | PI                 | 1.74          | 1.74            | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.75             | 1.75             | 1.75             | 1.75             | 1.75             |                  |
|                | TC                 | 26366         | 26403           | 26832            | 26964            | 27845            | 27719            | 27726            | 27730            | 27730            | 27894            | 28696            | 28695            | 28704            | 28706            | 28710            | 30546            | 30537            | 30538            | 30542            | 30563            |                  |
| 35°F<br>1.7°C  | S/T                | 0.80          | 0.91            | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |                  |
|                | PI                 | 1.72          | 1.72            | 1.72             | 1.72             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.73             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             |                  |
|                | TC                 | 26090         | 26091           | 26141            | 26171            | 26844            | 27342            | 27338            | 27339            | 27340            | 27341            | 28221            | 28219            | 28216            | 28216            | 28219            | 29855            | 29848            | 29842            | 29846            | 29841            |                  |
| 41°F<br>5°C    | S/T                | 0.75          | 0.85            | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |                  |
|                | PI                 | 1.57          | 1.57            | 1.58             | 1.58             | 1.63             | 1.67             | 1.67             | 1.67             | 1.67             | 1.67             | 1.74             | 1.74             | 1.74             | 1.74             | 1.74             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |                  |
|                | TC                 | 26420         | 26420           | 26493            | 26529            | 27282            | 27681            | 27678            | 27679            | 27679            | 27703            | 28567            | 28563            | 28561            | 28562            | 28565            | 30211            | 30204            | 30198            | 30201            | 30197            |                  |
| 47°F<br>8.3°C  | S/T                | 0.76          | 0.86            | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |                  |
|                | PI                 | 1.72          | 1.72            | 1.73             | 1.73             | 1.79             | 1.83             | 1.83             | 1.83             | 1.83             | 1.83             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             |                  |
|                | TC                 | 26747         | 26747           | 26850            | 26897            | 27724            | 28019            | 28016            | 28016            | 28016            | 28059            | 28912            | 28909            | 28906            | 28907            | 28908            | 30571            | 30563            | 30561            | 30560            | 30556            |                  |
| 50°F<br>10°C   | S/T                | 0.77          | 0.87            | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |                  |
|                | PI                 | 1.87          | 1.87            | 1.88             | 1.88             | 1.96             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |                  |
|                | TC                 | 25747         | 26168           | 27042            | 27197            | 28239            | 27260            | 27276            | 27365            | 27400            | 28272            | 28333            | 28370            | 28386            | 28388            | 28516            | 30375            | 30389            | 30463            | 30471            | 30512            |                  |
| 59°F<br>15°C   | S/T                | 0.87          | 1.00            | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |                  |
|                | PI                 | 2.04          | 2.05            | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |                  |
|                | TC                 | 24239         | 24823           | 25696            | 25851            | 26891            | 25718            | 25730            | 25857            | 25907            | 26922            | 26786            | 26815            | 26826            | 26827            | 27004            | 28832            | 28839            | 28896            | 28902            | 28931            |                  |
| 68°F<br>20°C   | S/T                | 0.88          | 1.00            | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |                  |
|                | PI                 | 1.91          | 1.91            | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.93             | 1.93             | 1.93             | 1.93             | 1.93             |                  |
|                | TC                 | 22762         | 23496           | 24361            | 24514            | 25545            | 24185            | 24192            | 24382            | 24541            | 25574            | 25237            | 25258            | 25265            | 25266            | 25553            | 27251            | 27260            | 27304            | 27309            | 27328            |                  |
| 77°F<br>25°C   | S/T                | 0.91          | 1.00            | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |                  |
|                | PI                 | 1.77          | 1.78            | 1.79             | 1.79             | 1.80             | 1.79             | 1.79             | 1.79             | 1.79             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.83             | 1.82             | 1.82             | 1.82             | 1.82             |                  |
|                | TC                 | 21251         | 22065           | 22921            | 23073            | 24093            | 22633            | 22644            | 22904            | 23101            | 24121            | 23666            | 23694            | 23705            | 23732            | 24143            | 25632            | 25655            | 25713            | 25719            | 25747            |                  |
| 82°F<br>27.8°C | S/T                | 0.92          | 1.00            | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |                  |
|                | PI                 | 1.66          | 1.67            | 1.67             | 1.67             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.70             | 1.70             | 1.70             | 1.70             | 1.70             |                  |
|                | TC                 | 21201         | 22100           | 22980            | 23137            | 24189            | 22600            | 22637            | 23008            | 23165            | 24216            | 23657            | 23689            | 23701            | 23738            | 24238            | 25661            | 25693            | 25758            | 25765            | 25795            |                  |
| 86°F<br>30°C   | S/T                | 0.94          | 1.00            | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |                  |
|                | PI                 | 1.81          | 1.82            | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.86             | 1.86             | 1.85             | 1.85             | 1.85             |                  |
|                | TC                 | 22132         | 23157           | 24096            | 24262            | 25393            | 23593            | 23642            | 24125            | 24291            | 25413            | 24719            | 24748            | 24787            | 24809            | 25437            | 26843            | 26882            | 26945            | 26952            | 26980            |                  |
| 95°F<br>35°C   | S/T                | 0.95          | 1.00            | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |                  |
|                | PI                 | 2.21          | 2.22            | 2.23             | 2.24             | 2.25             | 2.23             | 2.23             | 2.24             | 2.24             | 2.25             | 2.24             | 2.24             | 2.24             | 2.24             | 2.25             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |                  |
|                | TC                 | 24519         | 24563           | 25090            | 25238            | 26227            | 26087            | 26093            | 26102            | 26104            | 26281            | 27213            | 27216            | 27230            | 27232            | 27245            | 29378            | 29367            | 29370            | 29369            | 29391            |                  |
| 104°F<br>40°C  | S/T                | 0.80          | 0.91            | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |                  |
|                | PI                 | 3.00          | 3.00            | 3.03             | 3.04             | 3.10             | 3.09             | 3.09             | 3.09             | 3.09             | 3.10             | 3.16             | 3.16             | 3.16             | 3.16             | 3.16             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             |                  |
|                | TC                 | 21920         | 21998           | 22632            | 22765            | 23668            | 23322            | 23330</          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 44 – 37MURA + 45MULA Cooling Performance (36K - 36A) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 700            | -13°F<br>25°C      | TC    | 30749           | 30735            | 31173            | 31302            | 32164            | 32082            | 32055            | 32035            | 32032            | 32006            | 33041            | 33000            | 32968            | 32964            | 32932            | 34852            | 34843            | 34771            | 34758            | 34684            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.09            | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.07             | 2.07             | 2.08             | 2.08             | 2.08             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | -4°F<br>20°C       | TC    | 33114           | 33099            | 33571            | 33710            | 34638            | 34550            | 34521            | 34499            | 34496            | 34468            | 35583            | 35538            | 35504            | 35499            | 35465            | 37533            | 37523            | 37446            | 37432            | 37352            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.16            | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             |
|                | 0°F<br>17.8°C      | TC    | 34213           | 34193            | 34827            | 34973            | 35933            | 35681            | 35641            | 35613            | 35609            | 35967            | 36729            | 36677            | 36631            | 36626            | 36609            | 38704            | 38695            | 38692            | 38697            | 38723            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.18            | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             |
|                | 5°F<br>15°C        | TC    | 35194           | 35315            | 36122            | 36289            | 37407            | 36845            | 36854            | 36856            | 36894            | 37444            | 38023            | 38033            | 38040            | 38041            | 38092            | 40253            | 40241            | 40262            | 40266            | 40284            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.20            | 2.20             | 2.20             | 2.20             | 2.22             | 2.21             | 2.21             | 2.21             | 2.21             | 2.22             | 2.22             | 2.22             | 2.22             | 2.22             | 2.23             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |
|                | 14°F<br>10°C       | TC    | 34728           | 34711            | 35419            | 35585            | 36689            | 36452            | 36420            | 36395            | 36391            | 36732            | 37701            | 37654            | 37616            | 37610            | 37572            | 40088            | 40076            | 39999            | 39985            | 39900            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.24            | 2.24             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.24             | 2.24             | 2.24             | 2.24             | 2.24             |
|                | 17°F<br>10°C       | TC    | 34492           | 34605            | 35404            | 35577            | 36733            | 36209            | 36224            | 36231            | 36261            | 36772            | 37445            | 37459            | 37474            | 37476            | 37522            | 39824            | 39813            | 39807            | 39814            | 39847            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.23            | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.25             | 2.25             | 2.25             | 2.25             | 2.25             |
|                | 23°F<br>5°C        | TC    | 34167           | 34314            | 35202            | 35376            | 36541            | 35897            | 35908            | 35912            | 35959            | 36581            | 37135            | 37148            | 37158            | 37159            | 37219            | 39486            | 39474            | 39502            | 39507            | 39530            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.20            | 2.20             | 2.21             | 2.21             | 2.22             | 2.21             | 2.21             | 2.21             | 2.21             | 2.22             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |
|                | 35°F<br>1.7°C      | TC    | 33836           | 33837            | 34036            | 34131            | 35232            | 35417            | 35416            | 35419            | 35419            | 35513            | 36526            | 36524            | 36525            | 36526            | 36530            | 38583            | 38574            | 38572            | 38570            | 38573            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.01            | 2.01             | 2.03             | 2.04             | 2.12             | 2.13             | 2.13             | 2.13             | 2.14             | 2.14             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             |
|                | 41°F<br>5°C        | TC    | 34261           | 34261            | 34534            | 34774            | 35802            | 35854            | 35853            | 35855            | 35855            | 35981            | 36973            | 36970            | 36972            | 36973            | 36975            | 39047            | 39038            | 39035            | 39033            | 39038            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.20            | 2.20             | 2.23             | 2.25             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             | 2.35             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             |
|                | 47°F<br>8.3°C      | TC    | 34685           | 34708            | 35173            | 35331            | 36376            | 36293            | 36292            | 36293            | 36292            | 36460            | 37420            | 37417            | 37419            | 37419            | 37419            | 39515            | 39505            | 39502            | 39500            | 39504            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.40            | 2.40             | 2.44             | 2.46             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.57             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             |
|                | 50°F<br>10°C       | TC    | 33415           | 34335            | 35494            | 35700            | 37084            | 35302            | 35321            | 35565            | 35677            | 37119            | 36679            | 36727            | 36746            | 36748            | 37101            | 39207            | 39311            | 39412            | 39424            | 39473            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.62            | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
|                | 59°F<br>15°C       | TC    | 31478           | 32582            | 33738            | 33944            | 35325            | 33305            | 33350            | 33729            | 33980            | 35360            | 34679            | 34714            | 34726            | 34777            | 35389            | 37238            | 37313            | 37387            | 37395            | 37427            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.45            | 2.45             | 2.46             | 2.46             | 2.47             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 2.46             | 2.46             | 2.46             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.48             |
|                | 68°F<br>20°C       | TC    | 29538           | 30799            | 31941            | 32144            | 33508            | 31271            | 31341            | 31976            | 32179            | 33541            | 32623            | 32647            | 32706            | 32734            | 33569            | 35151            | 35216            | 35271            | 35277            | 35295            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.27            | 2.29             | 2.30             | 2.30             | 2.32             | 2.29             | 2.29             | 2.30             | 2.30             | 2.32             | 2.31             | 2.31             | 2.31             | 2.31             | 2.32             | 2.34             | 2.34             | 2.34             | 2.34             | 2.34             |
|                | 77°F<br>25°C       | TC    | 27589           | 28918            | 30050            | 30250            | 31601            | 29248            | 29341            | 30082            | 30283            | 31633            | 30573            | 30607            | 30686            | 30720            | 31660            | 33020            | 33120            | 33197            | 33205            | 33236            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.13            | 2.14             | 2.15             | 2.15             | 2.16             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.18             | 2.18             | 2.18             | 2.17             | 2.17             |
|                | 82°F<br>27.8°C     | TC    | 27545           | 28951            | 30119            | 30323            | 31712            | 29189            | 29302            | 30145            | 30357            | 31745            | 30547            | 30585            | 30680            | 30718            | 31773            | 33028            | 33152            | 33238            | 33247            | 33283            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.33            | 2.34             | 2.35             | 2.35             | 2.36             | 2.34             | 2.34             | 2.35             | 2.35             | 2.36             | 2.35             | 2.35             | 2.35             | 2.35             | 2.36             | 2.38             | 2.38             | 2.38             | 2.38             | 2.37             |
|                | 86°F<br>30°C       | TC    | 28910           | 30353            | 31594            | 31815            | 33296            | 30488            | 30628            | 31629            | 31851            | 33331            | 31932            | 31969            | 32086            | 32133            | 33359            | 34570            | 34704            | 34786            | 34795            | 34827            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.84            | 2.86             | 2.87             | 2.87             | 2.89             | 2.86             | 2.86             | 2.87             | 2.87             | 2.89             | 2.88             | 2.87             | 2.88             | 2.88             | 2.89             | 2.91             | 2.91             | 2.91             | 2.91             | 2.90             |
|                | 95°F<br>35°C       | TC    | 31776           | 31947            | 32980            | 33175            | 34487            | 33771            | 33791            | 33801            | 33841            | 34530            | 35220            | 35228            | 35249            | 35253            | 35311            | 37952            | 37937            | 37945            | 37956            | 38007            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 3.84            | 3.85             | 3.91             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 45 – 37MURA + 45MULA Heating Performance (36K - 36A)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 525              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 700              | -13°F (-25.0°C)                                    | 19293                               | 18907            | 18813            | 18738              | 18569              | 3.36                   | 3.39             | 3.40             | 3.40               | 3.42               |
|                  | -4°F (-20.0°C)                                     | 23286                               | 22820            | 22706            | 22615              | 22412              | 3.67                   | 3.70             | 3.70             | 3.71               | 3.73               |
|                  | 0°F (-17.8°C)                                      | 26642                               | 26109            | 25979            | 25875              | 25642              | 4.08                   | 4.12             | 4.13             | 4.13               | 4.15               |
|                  | 5°F (-15.0°C)                                      | 30837                               | 30220            | 30069            | 29949              | 29680              | 4.61                   | 4.65             | 4.65             | 4.66               | 4.68               |
|                  | 14°F (-10.0°C)                                     | 33385                               | 32717            | 32554            | 32423              | 32132              | 4.60                   | 4.63             | 4.64             | 4.65               | 4.67               |
|                  | 17°F (-8.3°C)                                      | 34234                               | 33549            | 33382            | 33248              | 32949              | 4.59                   | 4.63             | 4.64             | 4.65               | 4.67               |
|                  | 22°F (-5.6°C)                                      | 31809                               | 31173            | 31017            | 30893              | 30615              | 4.21                   | 4.25             | 4.25             | 4.26               | 4.28               |
|                  | 27°F (-2.8°C)                                      | 29384                               | 28796            | 28652            | 28537              | 28281              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 32°F (0.0°C)                                       | 26958                               | 26419            | 26287            | 26182              | 25946              | 3.45                   | 3.48             | 3.49             | 3.49               | 3.51               |
|                  | 35°F (1.7°C)                                       | 25503                               | 24993            | 24868            | 24769              | 24546              | 3.22                   | 3.25             | 3.26             | 3.26               | 3.27               |
|                  | 37°F (2.8°C)                                       | 27801                               | 27245            | 27108            | 27000              | 26757              | 3.34                   | 3.37             | 3.38             | 3.38               | 3.40               |
|                  | 42°F (5.6°C)                                       | 33544                               | 32874            | 32709            | 32578              | 32285              | 3.65                   | 3.68             | 3.69             | 3.69               | 3.71               |
|                  | 44.6°F (7.0°C)                                     | 35842                               | 35125            | 34949            | 34810              | 34496              | 3.77                   | 3.80             | 3.81             | 3.82               | 3.83               |
|                  | 47°F (8.3°C)                                       | 39288                               | 38502            | 38310            | 38157              | 37813              | 3.95                   | 3.98             | 3.99             | 4.00               | 4.02               |
|                  | 52°F (11.1°C)                                      | 40585                               | 39773            | 39574            | 39416              | 39061              | 3.79                   | 3.82             | 3.83             | 3.84               | 3.86               |
|                  | 57F (13.9°C)                                       | 41882                               | 41044            | 40839            | 40675              | 40309              | 3.64                   | 3.67             | 3.67             | 3.68               | 3.70               |
|                  | 59°F (15.0°C)                                      | 42400                               | 41552            | 41344            | 41179              | 40808              | 3.57                   | 3.60             | 3.61             | 3.62               | 3.63               |
|                  | 62°F (16.7°C)                                      | 43178                               | 42315            | 42103            | 41935              | 41557              | 3.48                   | 3.51             | 3.51             | 3.52               | 3.53               |
|                  | 64.4°F (18.0°C)                                    | 43801                               | 42925            | 42710            | 42539              | 42156              | 3.40                   | 3.43             | 3.44             | 3.44               | 3.46               |
|                  | 69.8°F (21.0°C)                                    | 43529                               | 42659            | 42445            | 42275              | 41895              | 3.23                   | 3.26             | 3.26             | 3.27               | 3.28               |
|                  | 75.2°F (24.0°C)                                    | 33914                               | 33235            | 33069            | 32937              | 32640              | 3.06                   | 3.09             | 3.09             | 3.10               | 3.11               |

Table 46 – 37MURA + 45MULA Cooling Performance (36K - 36B)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 684            | -13°F<br>25°C      | TC    | 26861           | 26851            | 26844            | 27000            | 27795            | 28043            | 28028            | 28015            | 28013            | 27994            | 28880            | 28865            | 28846            | 28843            | 28823            | 30465            | 30457            | 30435            | 30427            | 30382            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.06            | 2.06             | 2.06             | 2.06             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                | -4°F<br>20°C       | TC    | 28927           | 28917            | 28909            | 29077            | 29933            | 30201            | 30184            | 30170            | 30168            | 30147            | 31102            | 31086            | 31065            | 31062            | 31040            | 32809            | 32800            | 32776            | 32768            | 32719            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.13            | 2.13             | 2.13             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                | 0°F<br>17.8°C      | TC    | 29882           | 29869            | 29984            | 30213            | 31049            | 31185            | 31161            | 31143            | 31140            | 31135            | 32099            | 32081            | 32051            | 32047            | 32018            | 33829            | 33819            | 33821            | 33824            | 33850            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.15            | 2.15             | 2.15             | 2.15             | 2.15             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             |
|                | 5°F<br>15°C        | TC    | 30760           | 30788            | 31203            | 31346            | 32305            | 32223            | 32230            | 32234            | 32234            | 32393            | 33278            | 33275            | 33284            | 33285            | 33289            | 35266            | 35256            | 35256            | 35259            | 35278            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.17            | 2.17             | 2.17             | 2.17             | 2.18             | 2.17             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             |
|                | 14°F<br>10°C       | TC    | 31251           | 31239            | 31369            | 31643            | 32625            | 32820            | 32801            | 32785            | 32783            | 32765            | 33954            | 33938            | 33912            | 33907            | 33878            | 36089            | 36078            | 36052            | 36044            | 35988            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.00            | 2.00             | 2.00             | 2.00             | 2.00             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 17°F<br>10°C       | TC    | 31453           | 31461            | 31846            | 32030            | 33061            | 33032            | 33035            | 33042            | 33043            | 33199            | 34085            | 34099            | 34121            | 34122            | 34131            | 36353            | 36341            | 36345            | 36352            | 36386            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.93            | 1.93             | 1.93             | 1.93             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 23°F<br>5°C        | TC    | 31172           | 31215            | 31723            | 31879            | 32921            | 32772            | 32780            | 32784            | 32785            | 32979            | 33927            | 33926            | 33937            | 33938            | 33944            | 36114            | 36104            | 36105            | 36110            | 36134            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.88            | 1.88             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 35°F<br>1.7°C      | TC    | 31040           | 31040            | 31100            | 31135            | 31936            | 32529            | 32524            | 32526            | 32527            | 32527            | 33574            | 33572            | 33568            | 33568            | 33572            | 35519            | 35510            | 35503            | 35508            | 35502            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.70            | 1.70             | 1.70             | 1.70             | 1.76             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                | 41°F<br>5°C        | TC    | 30550           | 30551            | 30636            | 30677            | 31548            | 32009            | 32005            | 32006            | 32007            | 32035            | 33033            | 33029            | 33027            | 33027            | 33031            | 34935            | 34926            | 34919            | 34923            | 34918            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.82            | 1.82             | 1.83             | 1.83             | 1.90             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                | 47°F<br>8.3°C      | TC    | 30058           | 30058            | 30174            | 30226            | 31156            | 31488            | 31484            | 31485            | 31485            | 31532            | 32491            | 32488            | 32485            | 32485            | 32487            | 34356            | 34347            | 34344            | 34343            | 34338            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.94            | 1.94             | 1.95             | 1.96             | 2.04             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                | 50°F<br>10°C       | TC    | 28858           | 29329            | 30309            | 30482            | 31650            | 30553            | 30571            | 30670            | 30710            | 31687            | 31756            | 31797            | 31816            | 31818            | 31961            | 34044            | 34061            | 34143            | 34153            | 34198            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.12            | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.11             |
|                | 59°F<br>15°C       | TC    | 26933           | 27582            | 28552            | 28724            | 29880            | 28577            | 28589            | 28731            | 28787            | 29914            | 29763            | 29795            | 29807            | 29809            | 30005            | 32036            | 32045            | 32108            | 32115            | 32146            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.96            | 1.96             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                | 68°F<br>20°C       | TC    | 25045           | 25853            | 26804            | 26973            | 28107            | 26610            | 26619            | 26827            | 27002            | 28139            | 27768            | 27791            | 27799            | 27800            | 28116            | 29984            | 29994            | 30042            | 30047            | 30069            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.80            | 1.80             | 1.81             | 1.82             | 1.83             | 1.81             | 1.81             | 1.81             | 1.82             | 1.83             | 1.83             | 1.82             | 1.82             | 1.82             | 1.83             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                | 77°F<br>25°C       | TC    | 23121           | 24007            | 24938            | 25104            | 26213            | 24625            | 24637            | 24920            | 25133            | 26244            | 25749            | 25779            | 25791            | 25820            | 26268            | 27888            | 27913            | 27975            | 27982            | 28013            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.66            | 1.66             | 1.67             | 1.67             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             |
|                | 82°F<br>27.8°C     | TC    | 23057           | 24034            | 24992            | 25162            | 26307            | 24578            | 24618            | 25022            | 25193            | 26336            | 25728            | 25763            | 25776            | 25816            | 26360            | 27907            | 27943            | 28012            | 28020            | 28054            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.81            | 1.82             | 1.83             | 1.83             | 1.83             | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                | 86°F<br>30°C       | TC    | 24244           | 25367            | 26396            | 26578            | 27817            | 25845            | 25899            | 26428            | 26610            | 27838            | 27078            | 27110            | 27152            | 27177            | 27864            | 29405            | 29448            | 29517            | 29524            | 29555            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 2.22            | 2.23             | 2.24             | 2.25             | 2.26             | 2.24             | 2.24             | 2.24             | 2.25             | 2.26             | 2.25             | 2.25             | 2.25             | 2.25             | 2.26             | 2.28             | 2.28             | 2.28             | 2.28             | 2.27             |
|                | 95°F<br>35°C       | TC    | 27238           | 27287            | 27873            | 28037            | 29136            | 28980            | 28987            | 28997            | 28999            | 29195            | 30232            | 30235            | 30250            | 30253            | 30266            | 32636            | 32624            | 32628            | 32626            | 32651            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 3.03            | 3.04             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 46 – 37MURA + 45MULA Cooling Performance (36K - 36B) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 912            | -13°F<br>25°C      | TC    | 34828            | 34812            | 35308            | 35455            | 36430            | 36337            | 36308            | 36285            | 36281            | 36251            | 37424            | 37377            | 37341            | 37336            | 37301            | 39475            | 39464            | 39383            | 39369            | 39285            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.63             | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |
|                | -4°F<br>20°C       | TC    | 37507            | 37489            | 38024            | 38182            | 39233            | 39133            | 39100            | 39076            | 39072            | 39040            | 40303            | 40252            | 40214            | 40208            | 40170            | 42512            | 42500            | 42413            | 42397            | 42307            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.73             | 2.73             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.72             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             |
|                | 0°F<br>17.8°C      | TC    | 38751            | 38728            | 39447            | 39612            | 40700            | 40413            | 40369            | 40337            | 40333            | 40738            | 41601            | 41542            | 41491            | 41484            | 41465            | 43839            | 43828            | 43825            | 43831            | 43859            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|                | 5°F<br>15°C        | TC    | 39862            | 40000            | 40914            | 41103            | 42369            | 41732            | 41742            | 41745            | 41788            | 42411            | 43066            | 43077            | 43086            | 43087            | 43145            | 45593            | 45579            | 45602            | 45607            | 45627            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.77             | 2.77             | 2.78             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             | 2.80             | 2.80             | 2.81             | 2.81             | 2.81             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
|                | 14°F<br>10°C       | TC    | 40529            | 40508            | 41335            | 41529            | 42817            | 42541            | 42503            | 42474            | 42470            | 42867            | 43998            | 43943            | 43899            | 43892            | 43847            | 46784            | 46770            | 46680            | 46664            | 46564            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.56             | 2.56             | 2.56             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             |
|                | 17°F<br>10°C       | TC    | 40655            | 40788            | 41730            | 41934            | 43296            | 42679            | 42696            | 42704            | 42740            | 43342            | 44135            | 44152            | 44169            | 44171            | 44226            | 46939            | 46926            | 46919            | 46927            | 46967            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
|                | 23°F<br>5°C        | TC    | 40395            | 40569            | 41618            | 41824            | 43202            | 42441            | 42453            | 42458            | 42514            | 43249            | 43904            | 43920            | 43931            | 43932            | 44003            | 46684            | 46669            | 46702            | 46709            | 46736            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.41             | 2.41             | 2.42             | 2.42             | 2.44             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
|                | 35°F<br>1.7°C      | TC    | 40254            | 40256            | 40492            | 40605            | 41915            | 42136            | 42134            | 42138            | 42138            | 42250            | 43455            | 43452            | 43454            | 43455            | 43460            | 45902            | 45891            | 45889            | 45887            | 45890            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.17             | 2.18             | 2.19             | 2.20             | 2.29             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
|                | 41°F<br>5°C        | TC    | 39617            | 39618            | 39933            | 40211            | 41400            | 41460            | 41459            | 41461            | 41461            | 41607            | 42753            | 42751            | 42753            | 42754            | 42756            | 45152            | 45141            | 45138            | 45136            | 45141            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.33             | 2.33             | 2.36             | 2.38             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.49             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             |
|                | 47°F<br>8.3°C      | TC    | 38979            | 39005            | 39528            | 39704            | 40879            | 40786            | 40785            | 40786            | 40785            | 40974            | 42053            | 42049            | 42052            | 42051            | 42051            | 44407            | 44396            | 44392            | 44390            | 44395            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.49             | 2.49             | 2.54             | 2.56             | 2.66             | 2.65             | 2.65             | 2.65             | 2.65             | 2.67             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
|                | 50°F<br>10°C       | TC    | 37452            | 38483            | 39782            | 40013            | 41564            | 39567            | 39588            | 39862            | 39988            | 41603            | 41110            | 41164            | 41185            | 41188            | 41584            | 43944            | 44060            | 44173            | 44186            | 44242            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             |
|                | 59°F<br>15°C       | TC    | 34976            | 36203            | 37488            | 37716            | 39251            | 37007            | 37057            | 37478            | 37757            | 39290            | 38533            | 38572            | 38586            | 38642            | 39322            | 41377            | 41460            | 41542            | 41552            | 41586            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.51             | 2.52             | 2.52             | 2.52             | 2.53             | 2.52             | 2.52             | 2.52             | 2.52             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.55             | 2.54             | 2.54             | 2.54             | 2.54             |
|                | 68°F<br>20°C       | TC    | 32500            | 33888            | 35144            | 35368            | 36868            | 34407            | 34484            | 35182            | 35406            | 36905            | 35894            | 35921            | 35986            | 36017            | 36935            | 38676            | 38748            | 38809            | 38815            | 38835            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 2.30             | 2.32             | 2.33             | 2.33             | 2.35             | 2.32             | 2.32             | 2.33             | 2.33             | 2.35             | 2.34             | 2.34             | 2.34             | 2.34             | 2.35             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             |
|                | 77°F<br>25°C       | TC    | 30017            | 31463            | 32694            | 32912            | 34382            | 31822            | 31923            | 32730            | 32949            | 34417            | 33264            | 33301            | 33386            | 33423            | 34446            | 35926            | 36035            | 36118            | 36127            | 36161            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 2.12             | 2.14             | 2.15             | 2.15             | 2.16             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.18             | 2.18             | 2.17             | 2.17             | 2.17             |
|                | 82°F<br>27.8°C     | TC    | 29956            | 31486            | 32756            | 32978            | 34488            | 31744            | 31867            | 32784            | 33015            | 34524            | 33221            | 33263            | 33366            | 33408            | 34554            | 35919            | 36054            | 36148            | 36158            | 36197            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 2.32             | 2.33             | 2.34             | 2.34             | 2.36             | 2.34             | 2.34             | 2.34             | 2.35             | 2.36             | 2.35             | 2.35             | 2.35             | 2.35             | 2.36             | 2.38             | 2.37             | 2.37             | 2.37             | 2.37             |
|                | 86°F<br>30°C       | TC    | 31669            | 33250            | 34610            | 34851            | 36474            | 33398            | 33551            | 34648            | 34891            | 36512            | 34980            | 35020            | 35149            | 35199            | 36543            | 37870            | 38016            | 38106            | 38116            | 38151            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 2.85             | 2.87             | 2.88             | 2.88             | 2.90             | 2.87             | 2.87             | 2.88             | 2.88             | 2.90             | 2.89             | 2.89             | 2.89             | 2.89             | 2.90             | 2.93             | 2.92             | 2.92             | 2.92             | 2.92             |
|                | 95°F<br>35°C       | TC    | 35300            | 35491            | 36638            | 36855            | 38312            | 37517            | 37538            | 37550            | 37595            | 38360            | 39127            | 39135            | 39159            | 39162            | 39227            | 42161            | 42145            | 42153            | 42165            | 42222            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 3.89             | 3.89             | 3.96             | 3.97             | 4.05             | 4.01             | 4.01             | 4.01             | 4.01             | 4.05             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.27             | 4.27             | 4.27             | 4.27             | 4.27.            |

Table 47 – 37MURA + 45MULA Heating Performance (36K - 36B)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 684              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 912              | -13°F (-25.0°C)                                    | 21619                               | 21187            | 21081            | 20997              | 20808              | 3.62                   | 3.65             | 3.66             | 3.66               | 3.68               |
|                  | -4°F (-20.0°C)                                     | 26338                               | 25811            | 25682            | 25579              | 25349              | 3.82                   | 3.85             | 3.86             | 3.87               | 3.88               |
|                  | 0°F (-17.8°C)                                      | 27319                               | 26773            | 26639            | 26533              | 26294              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 5°F (-15.0°C)                                      | 28546                               | 27975            | 27835            | 27724              | 27474              | 3.97                   | 4.00             | 4.01             | 4.02               | 4.03               |
|                  | 14°F (-10.0°C)                                     | 30655                               | 30041            | 29891            | 29772              | 29504              | 4.06                   | 4.09             | 4.10             | 4.10               | 4.12               |
|                  | 17°F (-8.3°C)                                      | 31357                               | 30730            | 30577            | 30454              | 30180              | 4.08                   | 4.12             | 4.13             | 4.13               | 4.15               |
|                  | 22°F (-5.6°C)                                      | 29793                               | 29197            | 29051            | 28935              | 28674              | 3.76                   | 3.79             | 3.79             | 3.80               | 3.82               |
|                  | 27°F (-2.8°C)                                      | 28228                               | 27663            | 27525            | 27415              | 27168              | 3.43                   | 3.46             | 3.46             | 3.47               | 3.48               |
|                  | 32°F (0.0°C)                                       | 26663                               | 26130            | 25999            | 25895              | 25662              | 3.10                   | 3.12             | 3.13             | 3.14               | 3.15               |
|                  | 35°F (1.7°C)                                       | 25725                               | 25210            | 25084            | 24984              | 24759              | 2.90                   | 2.93             | 2.93             | 2.94               | 2.95               |
|                  | 37°F (2.8°C)                                       | 28682                               | 28108            | 27968            | 27856              | 27605              | 3.04                   | 3.06             | 3.07             | 3.07               | 3.09               |
|                  | 42°F (5.6°C)                                       | 36076                               | 35354            | 35178            | 35037              | 34722              | 3.37                   | 3.40             | 3.41             | 3.41               | 3.43               |
|                  | 44.6°F (7.0°C)                                     | 39033                               | 38253            | 38061            | 37909              | 37568              | 3.51                   | 3.54             | 3.54             | 3.55               | 3.57               |
|                  | 47°F (8.3°C)                                       | 43470                               | 42600            | 42387            | 42218              | 41838              | 3.71                   | 3.74             | 3.75             | 3.76               | 3.77               |
|                  | 52°F (11.1°C)                                      | 43565                               | 42693            | 42480            | 42310              | 41929              | 3.55                   | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 57F (13.9°C)                                       | 43660                               | 42787            | 42573            | 42402              | 42021              | 3.40                   | 3.42             | 3.43             | 3.44               | 3.45               |
|                  | 59°F (15.0°C)                                      | 43698                               | 42824            | 42610            | 42439              | 42057              | 3.33                   | 3.36             | 3.37             | 3.37               | 3.39               |
|                  | 62°F (16.7°C)                                      | 43755                               | 42880            | 42665            | 42495              | 42112              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 64.4°F (18.0°C)                                    | 43801                               | 42925            | 42710            | 42539              | 42156              | 3.16                   | 3.19             | 3.20             | 3.20               | 3.21               |
|                  | 69.8°F (21.0°C)                                    | 45180                               | 44276            | 44055            | 43878              | 43484              | 2.99                   | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 75.2°F (24.0°C)                                    | 35567                               | 34855            | 34681            | 34542              | 34232              | 2.82                   | 2.85             | 2.85             | 2.86               | 2.87               |

Table 48 – 37MURA + 45MULA Cooling Performance (36K - 36C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | TC    |                 | 26861            | 26851            | 26844            | 27000            | 27795            | 28043            | 28028            | 28015            | 28013            | 27994            | 28880            | 28865            | 28846            | 28843            | 28823            | 30465            | 30457            | 30435            | 30427            |
| 684            | -13°F<br>25°C      | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.06            | 2.06             | 2.06             | 2.06             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                |                    | TC    | 28927           | 28917            | 28909            | 29077            | 29933            | 30201            | 30184            | 30170            | 30168            | 30147            | 31102            | 31086            | 31065            | 31062            | 31040            | 32809            | 32800            | 32776            | 32768            | 32719            |
|                | S/T                | 0.78  | 0.88            | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |                  |
|                | PI                 | 2.13  | 2.13            | 2.13             | 2.13             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                | -4°F<br>20°C       | TC    | 29882           | 29869            | 29984            | 30213            | 31049            | 31185            | 31161            | 31143            | 31140            | 31135            | 32099            | 32081            | 32051            | 32047            | 32018            | 33829            | 33819            | 33821            | 33824            | 33850            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.15            | 2.15             | 2.15             | 2.15             | 2.15             | 2.14             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             |
|                | 0°F<br>17.8°C      | TC    | 30760           | 30788            | 31203            | 31346            | 32305            | 32223            | 32230            | 32234            | 32234            | 32393            | 33278            | 33275            | 33284            | 33285            | 33289            | 35266            | 35256            | 35256            | 35259            | 35278            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.17            | 2.17             | 2.17             | 2.17             | 2.18             | 2.17             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.19             | 2.19             | 2.19             | 2.19             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             |
|                | 5°F<br>15°C        | TC    | 31251           | 31239            | 31369            | 31643            | 32625            | 32820            | 32801            | 32785            | 32783            | 32765            | 33954            | 33938            | 33912            | 33907            | 33878            | 36089            | 36078            | 36052            | 36044            | 35988            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.00            | 2.00             | 2.00             | 2.00             | 2.00             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 1.99             | 1.99             | 1.99             | 1.99             | 1.99             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             |
|                | 14°F<br>10°C       | TC    | 31453           | 31461            | 31846            | 32030            | 33061            | 33032            | 33035            | 33042            | 33043            | 33199            | 34085            | 34099            | 34121            | 34122            | 34131            | 36353            | 36341            | 36345            | 36352            | 36386            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.93            | 1.93             | 1.93             | 1.93             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.92             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 17°F<br>10°C       | TC    | 31172           | 31215            | 31723            | 31879            | 32921            | 32772            | 32780            | 32784            | 32785            | 32979            | 33927            | 33926            | 33937            | 33938            | 33944            | 36114            | 36104            | 36105            | 36110            | 36134            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.88            | 1.88             | 1.89             | 1.89             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.94             | 1.94             | 1.94             | 1.94             | 1.94             |
|                | 23°F<br>5°C        | TC    | 31040           | 31040            | 31100            | 31135            | 31936            | 32529            | 32524            | 32526            | 32527            | 32527            | 33574            | 33572            | 33568            | 33568            | 33572            | 35519            | 35510            | 35503            | 35508            | 35502            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.70            | 1.70             | 1.70             | 1.70             | 1.76             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             |
|                | 35°F<br>1.7°C      | TC    | 30550           | 30551            | 30636            | 30677            | 31548            | 32009            | 32005            | 32006            | 32007            | 32035            | 33033            | 33029            | 33027            | 33027            | 33031            | 34935            | 34926            | 34919            | 34923            | 34918            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.82            | 1.82             | 1.83             | 1.83             | 1.90             | 1.93             | 1.93             | 1.93             | 1.93             | 1.94             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                | 41°F<br>5°C        | TC    | 30058           | 30058            | 30174            | 30226            | 31156            | 31488            | 31484            | 31485            | 31485            | 31532            | 32491            | 32488            | 32485            | 32485            | 32487            | 34356            | 34347            | 34344            | 34343            | 34338            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.94            | 1.94             | 1.95             | 1.96             | 2.04             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.17             | 2.17             | 2.17             | 2.17             | 2.17             | 2.36             | 2.36             | 2.36             | 2.36             | 2.36             |
|                | 47°F<br>8.3°C      | TC    | 28858           | 29329            | 30309            | 30482            | 31650            | 30553            | 30571            | 30670            | 30710            | 31687            | 31756            | 31797            | 31816            | 31818            | 31961            | 34044            | 34061            | 34143            | 34153            | 34198            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.12            | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             | 2.11             | 2.11             | 2.11             |
|                | 50°F<br>10°C       | TC    | 26933           | 27582            | 28552            | 28724            | 29880            | 28577            | 28589            | 28731            | 28787            | 29914            | 29763            | 29795            | 29807            | 29809            | 30005            | 32036            | 32045            | 32108            | 32115            | 32146            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 1.96            | 1.96             | 1.96             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                | 59°F<br>15°C       | TC    | 25045           | 25853            | 26804            | 26973            | 28107            | 26610            | 26619            | 26827            | 27002            | 28139            | 27768            | 27791            | 27799            | 27800            | 28116            | 29984            | 29994            | 30042            | 30047            | 30069            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 1.80            | 1.80             | 1.81             | 1.82             | 1.83             | 1.81             | 1.81             | 1.81             | 1.82             | 1.83             | 1.83             | 1.82             | 1.82             | 1.82             | 1.83             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                | 68°F<br>20°C       | TC    | 23121           | 24007            | 24938            | 25104            | 26213            | 24625            | 24637            | 24920            | 25133            | 26244            | 25749            | 25779            | 25791            | 25820            | 26268            | 27888            | 27913            | 27975            | 27982            | 28013            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 1.66            | 1.66             | 1.67             | 1.67             | 1.68             | 1.67             | 1.67             | 1.67             | 1.67             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             | 1.70             | 1.70             | 1.70             | 1.70             | 1.69             |
|                | 77°F<br>25°C       | TC    | 23057           | 24034            | 24992            | 25162            | 26307            | 24578            | 24618            | 25022            | 25193            | 26336            | 25728            | 25763            | 25776            | 25816            | 26360            | 27907            | 27943            | 28012            | 28020            | 28054            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 1.81            | 1.82             | 1.83             | 1.83             | 1.83             | 1.82             | 1.82             | 1.83             | 1.83             | 1.84             | 1.83             | 1.83             | 1.83             | 1.83             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                | 82°F<br>27.8°C     | TC    | 24244           | 25367            | 26396            | 26578            | 27817            | 25845            | 25899            | 26428            | 26610            | 27838            | 27078            | 27110            | 27152            | 27177            | 27864            | 29405            | 29448            | 29517            | 29524            | 29555            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 2.22            | 2.23             | 2.24             | 2.25             | 2.26             | 2.24             | 2.24             | 2.24             | 2.25             | 2.26             | 2.25             | 2.25             | 2.25             | 2.25             | 2.26             | 2.28             | 2.28             | 2.28             | 2.28             | 2.27             |
|                | 86°F<br>30°C       | TC    | 27238           | 27287            | 27873            | 28037            | 29136            | 28980            | 28987            | 28997            | 28999            | 29195            | 30232            | 30235            | 30250            | 30253            | 30266            | 32636            | 32624            | 32628            | 32626            | 32651            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 3.03            | 3.04             | 3.07             | 3.07             | 3.13             | 3.13             | 3.13             | 3.13             | 3.13             | 3.14             | 3.20             | 3.20             | 3.20             | 3.20             |                  |                  |                  |                  |                  |                  |

Table 48 – 37MURA + 45MULA Cooling Performance (36K - 36C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 912   | -13°F<br>25°C   | TC               | 34828            | 34812            | 35308            | 35455            | 36430            | 36337            | 36308            | 36285            | 36281            | 36251            | 37424            | 37377            | 37341            | 37336            | 37301            | 39475            | 39464            | 39383            |
| S/T            | 0.80               |       |                 | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
| PI             | 2.63               |       |                 | 2.63             | 2.63             | 2.63             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |
| -4°F<br>20°C   | TC                 |       | 37507           | 37489            | 38024            | 38182            | 39233            | 39133            | 39100            | 39076            | 39072            | 39040            | 40303            | 40252            | 40214            | 40208            | 40170            | 42512            | 42500            | 42413            | 42397            | 42307            |
|                | S/T                |       | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 2.73            | 2.73             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.72             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.73             | 2.73             | 2.73             | 2.73             | 2.73             |
| 0°F<br>17.8°C  | TC                 |       | 38751           | 38728            | 39447            | 39612            | 40700            | 40413            | 40369            | 40337            | 40333            | 40738            | 41601            | 41542            | 41491            | 41484            | 41465            | 43839            | 43828            | 43825            | 43831            | 43859            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 2.75            | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
| 5°F<br>15°C    | TC                 |       | 39862           | 40000            | 40914            | 41103            | 42369            | 41732            | 41742            | 41745            | 41788            | 42411            | 43066            | 43077            | 43086            | 43087            | 43145            | 45593            | 45579            | 45602            | 45607            | 45627            |
|                | S/T                |       | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 2.77            | 2.77             | 2.78             | 2.78             | 2.79             | 2.79             | 2.79             | 2.79             | 2.79             | 2.80             | 2.80             | 2.80             | 2.81             | 2.81             | 2.81             | 2.87             | 2.87             | 2.87             | 2.87             | 2.87             |
| 14°F<br>10°C   | TC                 |       | 40529           | 40508            | 41335            | 41529            | 42817            | 42541            | 42503            | 42474            | 42470            | 42867            | 43998            | 43943            | 43899            | 43892            | 43847            | 46784            | 46770            | 46680            | 46664            | 46564            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 2.56            | 2.56             | 2.56             | 2.56             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.55             | 2.56             | 2.56             | 2.56             | 2.56             | 2.56             |
| 17°F<br>10°C   | TC                 |       | 40655           | 40788            | 41730            | 41934            | 43296            | 42679            | 42696            | 42704            | 42740            | 43342            | 44135            | 44152            | 44169            | 44171            | 44226            | 46939            | 46926            | 46919            | 46927            | 46967            |
|                | S/T                |       | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 2.46            | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.46             | 2.47             | 2.47             | 2.47             | 2.47             | 2.47             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
| 23°F<br>5°C    | TC                 |       | 40395           | 40569            | 41618            | 41824            | 43202            | 42441            | 42453            | 42458            | 42514            | 43249            | 43904            | 43920            | 43931            | 43932            | 44003            | 46684            | 46669            | 46702            | 46709            | 46736            |
|                | S/T                |       | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 2.41            | 2.41             | 2.42             | 2.42             | 2.44             | 2.43             | 2.43             | 2.43             | 2.43             | 2.44             | 2.45             | 2.45             | 2.45             | 2.45             | 2.45             | 2.49             | 2.49             | 2.49             | 2.49             | 2.49             |
| 35°F<br>1.7°C  | TC                 |       | 40254           | 40256            | 40492            | 40605            | 41915            | 42136            | 42134            | 42138            | 42138            | 42250            | 43455            | 43452            | 43454            | 43455            | 43460            | 45902            | 45891            | 45889            | 45887            | 45890            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 2.17            | 2.18             | 2.19             | 2.20             | 2.29             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             | 2.41             | 2.41             | 2.41             | 2.41             | 2.41             | 2.62             | 2.62             | 2.62             | 2.62             | 2.62             |
| 41°F<br>5°C    | TC                 |       | 39617           | 39618            | 39933            | 40211            | 41400            | 41460            | 41459            | 41461            | 41461            | 41607            | 42753            | 42751            | 42753            | 42754            | 42756            | 45152            | 45141            | 45138            | 45136            | 45141            |
|                | S/T                |       | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                | PI                 |       | 2.33            | 2.33             | 2.36             | 2.38             | 2.47             | 2.48             | 2.48             | 2.48             | 2.48             | 2.49             | 2.59             | 2.59             | 2.59             | 2.59             | 2.59             | 2.82             | 2.82             | 2.82             | 2.82             | 2.82             |
| 47°F<br>8.3°C  | TC                 |       | 38979           | 39005            | 39528            | 39704            | 40879            | 40786            | 40785            | 40786            | 40785            | 40974            | 42053            | 42049            | 42052            | 42051            | 42051            | 44407            | 44396            | 44392            | 44390            | 44395            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                | PI                 |       | 2.49            | 2.49             | 2.54             | 2.56             | 2.66             | 2.65             | 2.65             | 2.65             | 2.65             | 2.67             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             |
| 50°F<br>10°C   | TC                 |       | 37452           | 38483            | 39782            | 40013            | 41564            | 39567            | 39588            | 39862            | 39988            | 41603            | 41110            | 41164            | 41185            | 41188            | 41584            | 43944            | 44060            | 44173            | 44186            | 44242            |
|                | S/T                |       | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                | PI                 |       | 2.72            | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             | 2.71             |
| 59°F<br>15°C   | TC                 |       | 34976           | 36203            | 37488            | 37716            | 39251            | 37007            | 37057            | 37478            | 37757            | 39290            | 38533            | 38572            | 38586            | 38642            | 39322            | 41377            | 41460            | 41542            | 41552            | 41586            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 2.51            | 2.52             | 2.52             | 2.52             | 2.53             | 2.52             | 2.52             | 2.52             | 2.52             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.53             | 2.55             | 2.54             | 2.54             | 2.54             | 2.54             |
| 68°F<br>20°C   | TC                 |       | 32500           | 33888            | 35144            | 35368            | 36868            | 34407            | 34484            | 35182            | 35406            | 36905            | 35894            | 35921            | 35986            | 36017            | 36935            | 38676            | 38748            | 38809            | 38815            | 38835            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                | PI                 |       | 2.30            | 2.32             | 2.33             | 2.33             | 2.35             | 2.32             | 2.32             | 2.33             | 2.33             | 2.35             | 2.34             | 2.34             | 2.34             | 2.34             | 2.35             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             |
| 77°F<br>25°C   | TC                 |       | 30017           | 31463            | 32694            | 32912            | 34382            | 31822            | 31923            | 32730            | 32949            | 34417            | 33264            | 33301            | 33386            | 33423            | 34446            | 35926            | 36035            | 36118            | 36127            | 36161            |
|                | S/T                |       | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                | PI                 |       | 2.12            | 2.14             | 2.15             | 2.15             | 2.16             | 2.14             | 2.14             | 2.15             | 2.15             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.18             | 2.18             | 2.17             | 2.17             | 2.17             |
| 82°F<br>27.8°C | TC                 |       | 29956           | 31486            | 32756            | 32978            | 34488            | 31744            | 31867            | 32784            | 33015            | 34524            | 33221            | 33263            | 33366            | 33408            | 34554            | 35919            | 36054            | 36148            | 36158            | 36197            |
|                | S/T                |       | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                | PI                 |       | 2.32            | 2.33             | 2.34             | 2.34             | 2.36             | 2.34             | 2.34             | 2.34             | 2.35             | 2.36             | 2.35             | 2.35             | 2.35             | 2.35             | 2.36             | 2.38             | 2.37             | 2.37             | 2.37             | 2.37             |
| 86°F<br>30°C   | TC                 |       | 31669           | 33250            | 34610            | 34851            | 36474            | 33398            | 33551            | 34648            | 34891            | 36512            | 34980            | 35020            | 35149            | 35199            | 36543            | 37870            | 38016            | 38106            | 38116            | 38151            |
|                | S/T                |       | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                | PI                 |       | 2.85            | 2.87             | 2.88             | 2.88             | 2.90             | 2.87             | 2.87             | 2.88             | 2.88             | 2.90             | 2.89             | 2.89             | 2.89             | 2.89             | 2.90             | 2.93             | 2.92             | 2.92             | 2.92             | 2.92             |
| 95°F<br>35°C   | TC                 |       | 35300           | 35491            | 36638            | 36855            | 38312            | 37517            | 37538            | 37550            | 37595            | 38360            | 39127            | 39135            | 39159            | 39162            | 39227            | 42161            | 42145            | 42153            | 42165            | 42222            |
|                | S/T                |       | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 3.89            | 3.89             | 3.96             | 3.97             | 4.05             | 4.01             | 4.01             | 4.01             | 4.01             | 4.05             | 4.10             | 4.10             | 4.10             | 4.10             | 4.10             | 4.27             | 4.27             | 4.27             | 4.27             | 4.27             |
| 104°F<br>40°C  | TC                 |       | 32000           | 32293            | 33509            | 33710            | 35055            | 340              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 49 – 37MURA + 45MULA Heating Performance (36K - 36C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 684              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57°F (13.9°C)                                      | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 912              | -13°F (-25.0°C)                                    | 21619                               | 21187            | 21081            | 20997              | 20808              | 3.62                   | 3.65             | 3.66             | 3.66               | 3.68               |
|                  | -4°F (-20.0°C)                                     | 26338                               | 25811            | 25682            | 25579              | 25349              | 3.82                   | 3.85             | 3.86             | 3.87               | 3.88               |
|                  | 0°F (-17.8°C)                                      | 27319                               | 26773            | 26639            | 26533              | 26294              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 5°F (-15.0°C)                                      | 28546                               | 27975            | 27835            | 27724              | 27474              | 3.97                   | 4.00             | 4.01             | 4.02               | 4.03               |
|                  | 14°F (-10.0°C)                                     | 30655                               | 30041            | 29891            | 29772              | 29504              | 4.06                   | 4.09             | 4.10             | 4.10               | 4.12               |
|                  | 17°F (-8.3°C)                                      | 31357                               | 30730            | 30577            | 30454              | 30180              | 4.08                   | 4.12             | 4.13             | 4.13               | 4.15               |
|                  | 22°F (-5.6°C)                                      | 29793                               | 29197            | 29051            | 28935              | 28674              | 3.76                   | 3.79             | 3.79             | 3.80               | 3.82               |
|                  | 27°F (-2.8°C)                                      | 28228                               | 27663            | 27525            | 27415              | 27168              | 3.43                   | 3.46             | 3.46             | 3.47               | 3.48               |
|                  | 32°F (0.0°C)                                       | 26663                               | 26130            | 25999            | 25895              | 25662              | 3.10                   | 3.12             | 3.13             | 3.14               | 3.15               |
|                  | 35°F (1.7°C)                                       | 25725                               | 25210            | 25084            | 24984              | 24759              | 2.90                   | 2.93             | 2.93             | 2.94               | 2.95               |
|                  | 37°F (2.8°C)                                       | 28682                               | 28108            | 27968            | 27856              | 27605              | 3.04                   | 3.06             | 3.07             | 3.07               | 3.09               |
|                  | 42°F (5.6°C)                                       | 36076                               | 35354            | 35178            | 35037              | 34722              | 3.37                   | 3.40             | 3.41             | 3.41               | 3.43               |
|                  | 44.6°F (7.0°C)                                     | 39033                               | 38253            | 38061            | 37909              | 37568              | 3.51                   | 3.54             | 3.54             | 3.55               | 3.57               |
|                  | 47°F (8.3°C)                                       | 43470                               | 42600            | 42387            | 42218              | 41838              | 3.71                   | 3.74             | 3.75             | 3.76               | 3.77               |
|                  | 52°F (11.1°C)                                      | 43565                               | 42693            | 42480            | 42310              | 41929              | 3.55                   | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 57°F (13.9°C)                                      | 43660                               | 42787            | 42573            | 42402              | 42021              | 3.40                   | 3.42             | 3.43             | 3.44               | 3.45               |
|                  | 59°F (15.0°C)                                      | 43698                               | 42824            | 42610            | 42439              | 42057              | 3.33                   | 3.36             | 3.37             | 3.37               | 3.39               |
|                  | 62°F (16.7°C)                                      | 43755                               | 42880            | 42665            | 42495              | 42112              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 64.4°F (18.0°C)                                    | 43801                               | 42925            | 42710            | 42539              | 42156              | 3.16                   | 3.19             | 3.20             | 3.20               | 3.21               |
|                  | 69.8°F (21.0°C)                                    | 45180                               | 44276            | 44055            | 43878              | 43484              | 2.99                   | 3.02             | 3.02             | 3.03               | 3.04               |
|                  | 75.2°F (24.0°C)                                    | 35567                               | 34855            | 34681            | 34542              | 34232              | 2.82                   | 2.85             | 2.85             | 2.86               | 2.87               |

Table 50 – 37MURA + 45MULA Cooling Performance (48K - 60C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 790   | -13°F<br>25°C   | TC               | 29987            | 29977            | 29968            | 30143            | 31030            | 31308            | 31290            | 31276            | 31274            | 31252            | 32242            | 32225            | 32204            | 32200            | 32178            | 34011            | 34002            | 33977            |
| S/T            | 0.77               |       |                 | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
| PI             | 1.41               |       |                 | 1.41             | 1.41             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             | 1.39             | 1.39             | 1.39             | 1.39             | 1.39             | 1.40             | 1.40             | 1.40             | 1.40             | 1.40             |
| -4°F<br>20°C   | TC                 |       | 32294           | 32283            | 32274            | 32461            | 33417            | 33716            | 33697            | 33682            | 33680            | 33656            | 34722            | 34704            | 34681            | 34677            | 34653            | 36628            | 36618            | 36591            | 36582            | 36527            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.46            | 1.46             | 1.46             | 1.45             | 1.45             | 1.44             | 1.45             | 1.45             | 1.45             | 1.45             | 1.44             | 1.44             | 1.44             | 1.44             | 1.44             | 1.45             | 1.45             | 1.45             | 1.45             | 1.45             |
| 0°F<br>17.8°C  | TC                 |       | 33360           | 33345            | 33474            | 33730            | 34664            | 34814            | 34788            | 34768            | 34765            | 34759            | 35835            | 35815            | 35782            | 35777            | 35745            | 37767            | 37756            | 37757            | 37762            | 37790            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.47            | 1.47             | 1.47             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
| 5°F<br>15°C    | TC                 |       | 34341           | 34372            | 34835            | 34995            | 36065            | 35974            | 35982            | 35985            | 35986            | 36163            | 37151            | 37148            | 37158            | 37159            | 37164            | 39371            | 39360            | 39360            | 39363            | 39385            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.48            | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.49             | 1.52             | 1.52             | 1.52             | 1.52             | 1.52             |
| 14°F<br>10°C   | TC                 |       | 34416           | 34404            | 34546            | 34848            | 35930            | 36144            | 36123            | 36106            | 36103            | 36084            | 37393            | 37375            | 37347            | 37342            | 37310            | 39744            | 39732            | 39703            | 39695            | 39634            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.48            | 1.48             | 1.48             | 1.48             | 1.48             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             | 1.47             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             | 1.48             | 1.48             | 1.48             | 1.48             |
| 17°F<br>10°C   | TC                 |       | 34484           | 34493            | 34916            | 35117            | 36248            | 36216            | 36219            | 36227            | 36228            | 36399            | 37371            | 37385            | 37409            | 37411            | 37421            | 39856            | 39844            | 39848            | 39856            | 39893            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.47            | 1.47             | 1.47             | 1.47             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.46             | 1.47             | 1.47             | 1.47             | 1.47             | 1.48             |
| 23°F<br>5°C    | TC                 |       | 33917           | 33964            | 34517            | 34686            | 35820            | 35658            | 35667            | 35672            | 35672            | 35883            | 36915            | 36914            | 36925            | 36927            | 36933            | 39295            | 39283            | 39285            | 39290            | 39317            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 1.61            | 1.61             | 1.61             | 1.61             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.66             | 1.66             | 1.66             | 1.66             | 1.66             |
| 35°F<br>1.7°C  | TC                 |       | 33249           | 33250            | 33314            | 33351            | 34208            | 34844            | 34839            | 34840            | 34842            | 34842            | 35964            | 35961            | 35957            | 35957            | 35961            | 38047            | 38038            | 38030            | 38035            | 38028            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 1.77            | 1.77             | 1.78             | 1.78             | 1.84             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 2.13             | 2.13             | 2.13             | 2.13             | 2.13             |
| 41°F<br>5°C    | TC                 |       | 37008           | 37008            | 37111            | 37161            | 38216            | 38774            | 38770            | 38771            | 38772            | 38806            | 40015            | 40011            | 40007            | 40008            | 40012            | 42319            | 42309            | 42300            | 42304            | 42298            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 2.10            | 2.10             | 2.11             | 2.11             | 2.19             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.33             | 2.33             | 2.33             | 2.33             | 2.33             | 2.54             | 2.54             | 2.54             | 2.54             | 2.54             |
| 47°F<br>8.3°C  | TC                 |       | 40766           | 40766            | 40923            | 40994            | 42255            | 42705            | 42699            | 42701            | 42701            | 42765            | 44065            | 44061            | 44057            | 44058            | 44060            | 46594            | 46582            | 46579            | 46578            | 46571            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 2.42            | 2.42             | 2.43             | 2.44             | 2.54             | 2.58             | 2.58             | 2.58             | 2.58             | 2.59             | 2.70             | 2.70             | 2.70             | 2.70             | 2.70             | 2.95             | 2.95             | 2.95             | 2.95             | 2.94             |
| 50°F<br>10°C   | TC                 |       | 39755           | 40404            | 41754            | 41993            | 43602            | 42091            | 42116            | 42252            | 42306            | 43653            | 43748            | 43804            | 43830            | 43833            | 44030            | 46900            | 46923            | 47036            | 47049            | 47112            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 2.78            | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.77             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             |
| 59°F<br>15°C   | TC                 |       | 38987           | 39926            | 41331            | 41580            | 43253            | 41366            | 41384            | 41590            | 41670            | 43302            | 43084            | 43130            | 43148            | 43149            | 43434            | 46374            | 46386            | 46477            | 46488            | 46533            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 2.97            | 2.98             | 2.99             | 2.99             | 3.00             | 2.99             | 2.99             | 2.99             | 2.99             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.00             | 3.02             | 3.02             | 3.02             | 3.02             | 3.01             |
| 68°F<br>20°C   | TC                 |       | 38258           | 39492            | 40945            | 41204            | 42936            | 40649            | 40662            | 40980            | 41248            | 42984            | 42418            | 42453            | 42465            | 42466            | 42950            | 45803            | 45818            | 45891            | 45900            | 45933            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 3.17            | 3.19             | 3.20             | 3.21             | 3.22             | 3.20             | 3.20             | 3.20             | 3.21             | 3.23             | 3.22             | 3.22             | 3.22             | 3.22             | 3.23             | 3.26             | 3.26             | 3.26             | 3.26             | 3.26             |
| 77°F<br>25°C   | TC                 |       | 37459           | 38894            | 40402            | 40670            | 42468            | 39895            | 39913            | 40372            | 40718            | 42518            | 41716            | 41764            | 41783            | 41831            | 42556            | 45180            | 45221            | 45323            | 45334            | 45383            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 3.40            | 3.41             | 3.43             | 3.43             | 3.45             | 3.43             | 3.42             | 3.43             | 3.43             | 3.45             | 3.44             | 3.44             | 3.44             | 3.44             | 3.45             | 3.48             | 3.48             | 3.48             | 3.48             | 3.48             |
| 82°F<br>27.8°C | TC                 |       | 36758           | 38317            | 39844            | 40115            | 41939            | 39184            | 39248            | 39892            | 40164            | 41987            | 41018            | 41072            | 41093            | 41157            | 42025            | 44491            | 44548            | 44659            | 44671            | 44724            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 3.53            | 3.55             | 3.57             | 3.57             | 3.58             | 3.56             | 3.56             | 3.57             | 3.57             | 3.59             | 3.58             | 3.58             | 3.58             | 3.58             | 3.59             | 3.62             | 3.62             | 3.61             | 3.61             | 3.61             |
| 86°F<br>30°C   | TC                 |       | 35847           | 37507            | 39029            | 39298            | 41130            | 38214            | 38294            | 39076            | 39345            | 41162            | 40037            | 40084            | 40148            | 40184            | 41200            | 43479            | 43541            | 43643            | 43655            | 43700            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 3.65            | 3.67             | 3.69             | 3.69             | 3.72             | 3.68             | 3.68             | 3.69             | 3.69             | 3.71             | 3.70             | 3.70             | 3.70             | 3.70             | 3.71             | 3.75             | 3.75             | 3.74             | 3.74             | 3.74             |
| 95°F<br>35°C   | TC                 |       | 34235           | 34296            | 35033            | 35239            | 36621            | 36425            | 36434            | 36446            | 36448            | 36695            | 37998            | 38002            | 38021            | 38024            | 38041            | 41020            | 41005            | 41009            | 41007            | 41038            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                | PI                 |       | 3.77            | 3.78             | 3.82             | 3.83             | 3.90             | 3.89             | 3.89             | 3.89             | 3.89             | 3.91             | 3.98             | 3.98             | 3.98             | 3.98             | 3.98             | 4.15             | 4.14             | 4.14             | 4.14             | 4.15             |
| 104°F<br>40°C  | TC                 |       | 32663           | 32780            | 33724            | 33923            | 35268            | <                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 50 – 37MURA + 45MULA Cooling Performance (48K - 60C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    | ID DB | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    |       |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1050           | -13°F<br>25°C      | TC    | 38758            | 38741            | 39293            | 39456            | 40542            | 40439            | 40405            | 40380            | 40376            | 40343            | 41648            | 41595            | 41556            | 41550            | 41511            | 43930            | 43919            | 43828            | 43812            | 43719            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.79             | 1.79             | 1.79             | 1.79             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.79             | 1.79             | 1.79             | 1.79             | 1.79             |
|                | -4°F<br>20°C       | TC    | 41740            | 41721            | 42316            | 42491            | 43661            | 43549            | 43514            | 43486            | 43482            | 43446            | 44852            | 44795            | 44753            | 44746            | 44704            | 47310            | 47297            | 47200            | 47182            | 47082            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.85             | 1.86             | 1.85             | 1.85             | 1.85             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.84             | 1.84             | 1.84             | 1.84             | 1.84             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             |
|                | 0°F<br>17.8°C      | TC    | 43125            | 43100            | 43899            | 44083            | 45293            | 44975            | 44925            | 44890            | 44885            | 45336            | 46297            | 46231            | 46173            | 46167            | 46145            | 48786            | 48775            | 48771            | 48778            | 48809            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 5°F<br>15°C        | TC    | 44362            | 44514            | 45532            | 45742            | 47151            | 46442            | 46454            | 46457            | 46505            | 47198            | 47927            | 47939            | 47949            | 47951            | 48014            | 50738            | 50723            | 50749            | 50755            | 50777            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 1.89             | 1.89             | 1.89             | 1.89             | 1.90             | 1.89             | 1.89             | 1.89             | 1.89             | 1.90             | 1.91             | 1.91             | 1.91             | 1.91             | 1.91             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             |
|                | 14°F<br>10°C       | TC    | 44493            | 44470            | 45378            | 45591            | 47005            | 46702            | 46661            | 46629            | 46624            | 47060            | 48302            | 48241            | 48192            | 48185            | 48136            | 51360            | 51344            | 51246            | 51228            | 51119            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.89             | 1.89             | 1.89             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 17°F<br>10°C       | TC    | 44432            | 44577            | 45607            | 45830            | 47318            | 46644            | 46663            | 46672            | 46711            | 47369            | 48236            | 48254            | 48273            | 48275            | 48335            | 51300            | 51286            | 51278            | 51288            | 51330            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.87             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             |
|                | 23°F<br>5°C        | TC    | 43814            | 44002            | 45140            | 45363            | 46858            | 46032            | 46046            | 46051            | 46111            | 46908            | 47620            | 47636            | 47649            | 47650            | 47727            | 50634            | 50619            | 50655            | 50662            | 50691            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.05             | 2.05             | 2.06             | 2.06             | 2.08             | 2.07             | 2.07             | 2.07             | 2.07             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.12             | 2.12             | 2.12             | 2.12             | 2.12             |
|                | 35°F<br>1.7°C      | TC    | 42983            | 42984            | 43237            | 43357            | 44756            | 44992            | 44990            | 44994            | 44994            | 45114            | 46400            | 46397            | 46399            | 46401            | 46405            | 49013            | 49001            | 48999            | 48997            | 49001            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.26             | 2.26             | 2.28             | 2.29             | 2.38             | 2.40             | 2.40             | 2.40             | 2.40             | 2.41             | 2.51             | 2.51             | 2.51             | 2.51             | 2.51             | 2.72             | 2.72             | 2.72             | 2.72             | 2.72             |
|                | 41°F<br>5°C        | TC    | 47839            | 47840            | 48221            | 48556            | 49991            | 50064            | 50063            | 50066            | 50066            | 50242            | 51626            | 51623            | 51626            | 51626            | 51630            | 54523            | 54509            | 54506            | 54503            | 54509            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.68             | 2.68             | 2.71             | 2.73             | 2.84             | 2.85             | 2.85             | 2.85             | 2.85             | 2.86             | 2.98             | 2.98             | 2.98             | 2.98             | 2.98             | 3.24             | 3.24             | 3.24             | 3.24             | 3.24             |
|                | 47°F<br>8.3°C      | TC    | 52697            | 52732            | 53439            | 53678            | 55266            | 55140            | 55138            | 55140            | 55139            | 55395            | 56853            | 56848            | 56852            | 56851            | 56851            | 60036            | 60021            | 60015            | 60013            | 60019            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 3.10             | 3.10             | 3.15             | 3.18             | 3.31             | 3.30             | 3.30             | 3.30             | 3.30             | 3.32             | 3.45             | 3.45             | 3.45             | 3.45             | 3.45             | 3.76             | 3.76             | 3.76             | 3.76             | 3.76             |
|                | 50°F<br>10°C       | TC    | 51432            | 52848            | 54631            | 54948            | 57078            | 54335            | 54365            | 54741            | 54913            | 57132            | 56455            | 56528            | 56558            | 56561            | 57105            | 60346            | 60505            | 60661            | 60679            | 60756            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.54             | 3.54             | 3.54             | 3.54             | 3.54             |
|                | 59°F<br>15°C       | TC    | 50470            | 52240            | 54095            | 54424            | 56638            | 53399            | 53472            | 54079            | 54482            | 56694            | 55602            | 55659            | 55678            | 55759            | 56741            | 59706            | 59825            | 59945            | 59958            | 60008            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 3.80             | 3.81             | 3.82             | 3.82             | 3.83             | 3.82             | 3.82             | 3.82             | 3.82             | 3.84             | 3.83             | 3.83             | 3.83             | 3.83             | 3.84             | 3.86             | 3.86             | 3.85             | 3.85             | 3.85             |
|                | 68°F<br>20°C       | TC    | 49490            | 51602            | 53516            | 53856            | 56141            | 52393            | 52511            | 53574            | 53915            | 56197            | 54658            | 54699            | 54797            | 54845            | 56244            | 58894            | 59003            | 59096            | 59105            | 59136            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 4.05             | 4.08             | 4.10             | 4.10             | 4.13             | 4.09             | 4.09             | 4.10             | 4.10             | 4.13             | 4.12             | 4.12             | 4.12             | 4.12             | 4.13             | 4.17             | 4.17             | 4.17             | 4.17             | 4.16             |
|                | 77°F<br>25°C       | TC    | 48477            | 50811            | 52800            | 53151            | 55526            | 51392            | 51555            | 52857            | 53211            | 55582            | 53719            | 53780            | 53917            | 53977            | 55629            | 58019            | 58195            | 58330            | 58344            | 58398            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 4.34             | 4.37             | 4.39             | 4.39             | 4.41             | 4.38             | 4.38             | 4.39             | 4.39             | 4.41             | 4.40             | 4.40             | 4.40             | 4.40             | 4.41             | 4.45             | 4.45             | 4.45             | 4.44             | 4.44             |
|                | 82°F<br>27.8°C     | TC    | 47607            | 50037            | 52055            | 52408            | 54808            | 50448            | 50643            | 52101            | 52467            | 54866            | 52795            | 52862            | 53026            | 53092            | 54914            | 57083            | 57297            | 57447            | 57462            | 57524            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 4.52             | 4.54             | 4.57             | 4.57             | 4.59             | 4.55             | 4.55             | 4.56             | 4.57             | 4.59             | 4.57             | 4.57             | 4.57             | 4.57             | 4.59             | 4.63             | 4.62             | 4.62             | 4.62             | 4.61             |
|                | 86°F<br>30°C       | TC    | 46677            | 49008            | 51012            | 51368            | 53760            | 49225            | 49452            | 51069            | 51426            | 53816            | 51558            | 51617            | 51806            | 51881            | 53862            | 55817            | 56033            | 56166            | 56180            | 56232            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 4.67             | 4.70             | 4.72             | 4.72             | 4.75             | 4.70             | 4.70             | 4.72             | 4.72             | 4.75             | 4.73             | 4.73             | 4.73             | 4.73             | 4.75             | 4.79             | 4.79             | 4.78             | 4.78             | 4.78             |
|                | 95°F<br>35°C       | TC    | 44228            | 44467            | 45904            | 46176            | 48001            | 47005            | 47032            | 47047            | 47103            | 48061            | 49022            | 49032            | 49062            | 49067            | 49148            | 52824            | 52803            | 52814            | 52829            | 52900            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 4.82             | 4.83             | 4.91             | 4.92             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 51 – 37MURA + 45MULA Heating Performance (48K -60C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 790              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57°F (13.9°C)                                      | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 1050             | -13°F (-25.0°C)                                    | 34551                               | 33860            | 33691            | 33556              | 33254              | 5.71                   | 5.76             | 5.77             | 5.78               | 5.80               |
|                  | -4°F (-20.0°C)                                     | 41201                               | 40377            | 40175            | 40014              | 39654              | 6.21                   | 6.26             | 6.27             | 6.29               | 6.31               |
|                  | 0°F (-17.8°C)                                      | 42595                               | 41743            | 41534            | 41368              | 40996              | 6.27                   | 6.32             | 6.34             | 6.35               | 6.37               |
|                  | 5°F (-15.0°C)                                      | 44337                               | 43450            | 43233            | 43060              | 42672              | 6.35                   | 6.40             | 6.41             | 6.43               | 6.45               |
|                  | 14°F (-10.0°C)                                     | 40214                               | 39409            | 39212            | 39056              | 38704              | 5.12                   | 5.16             | 5.18             | 5.19               | 5.21               |
|                  | 17°F (-8.3°C)                                      | 38839                               | 38063            | 37872            | 37721              | 37381              | 4.72                   | 4.75             | 4.76             | 4.77               | 4.79               |
|                  | 22°F (-5.6°C)                                      | 39011                               | 38230            | 38039            | 37887              | 37546              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 27°F (-2.8°C)                                      | 39182                               | 38398            | 38206            | 38054              | 37711              | 4.73                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 32°F (0.0°C)                                       | 39353                               | 38566            | 38373            | 38220              | 37876              | 4.73                   | 4.77             | 4.78             | 4.79               | 4.81               |
|                  | 35°F (1.7°C)                                       | 39456                               | 38667            | 38474            | 38320              | 37975              | 4.74                   | 4.77             | 4.78             | 4.79               | 4.81               |
|                  | 37°F (2.8°C)                                       | 41628                               | 40795            | 40591            | 40429              | 40065              | 4.75                   | 4.79             | 4.80             | 4.80               | 4.82               |
|                  | 42°F (5.6°C)                                       | 47057                               | 46116            | 45886            | 45702              | 45291              | 4.77                   | 4.81             | 4.82             | 4.83               | 4.85               |
|                  | 44.6°F (7.0°C)                                     | 49229                               | 48245            | 48003            | 47811              | 47381              | 4.79                   | 4.82             | 4.83             | 4.84               | 4.86               |
|                  | 47°F (8.3°C)                                       | 52487                               | 51437            | 51180            | 50975              | 50517              | 4.80                   | 4.84             | 4.85             | 4.86               | 4.88               |
|                  | 52°F (11.1°C)                                      | 50170                               | 49166            | 48921            | 48725              | 48286              | 4.32                   | 4.35             | 4.36             | 4.37               | 4.39               |
|                  | 57°F (13.9°C)                                      | 47853                               | 46896            | 46661            | 46475              | 46056              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 59°F (15.0°C)                                      | 46926                               | 45987            | 45758            | 45574              | 45164              | 3.63                   | 3.66             | 3.67             | 3.68               | 3.69               |
|                  | 62°F (16.7°C)                                      | 45536                               | 44625            | 44402            | 44224              | 43826              | 3.34                   | 3.37             | 3.38             | 3.38               | 3.40               |
|                  | 64.4°F (18.0°C)                                    | 44424                               | 43535            | 43317            | 43144              | 42756              | 3.11                   | 3.13             | 3.14             | 3.15               | 3.16               |
|                  | 69.8°F (21.0°C)                                    | 41921                               | 41083            | 40877            | 40714              | 40347              | 2.58                   | 2.60             | 2.61             | 2.61               | 2.63               |
|                  | 75.2°F (24.0°C)                                    | 39419                               | 38630            | 38437            | 38283              | 37939              | 2.06                   | 2.07             | 2.08             | 2.08               | 2.09               |

Table 52 – 37MURA + 45MULA Cooling Performance (48K - 60D)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | TC    |                 | 31322            | 31311            | 31303            | 31484            | 32411            | 32701            | 32683            | 32669            | 32666            | 32644            | 33677            | 33660            | 33638            | 33634            | 33610            | 35526            | 35516            | 35490            | 35481            |
| -13°F<br>25°C  |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 1.55            | 1.55             | 1.56             | 1.55             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.55             | 1.55             | 1.55             | 1.55             | 1.55             |
|                | -4°F<br>20°C       |       | TC              | 33732            | 33720            | 33710            | 33906            | 34904            | 35217            | 35198            | 35182            | 35179            | 35155            | 36268            | 36249            | 36225            | 36221            | 36196            | 38258            | 38248            | 38220            | 38210            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.61            | 1.61             | 1.61             | 1.61             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
| 0°F<br>17.8°C  |                    | TC    | 34845           | 34830            | 34964            | 35231            | 36207            | 36364            | 36337            | 36316            | 36312            | 36306            | 37431            | 37409            | 37375            | 37370            | 37337            | 39448            | 39436            | 39438            | 39443            | 39472            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.62            | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 5°F<br>15°C    |                    | TC    | 35870           | 35902            | 36386            | 36553            | 37671            | 37576            | 37583            | 37587            | 37588            | 37773            | 38805            | 38802            | 38813            | 38813            | 38818            | 41124            | 41112            | 41112            | 41115            | 41138            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.64            | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.65             | 1.65             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |
| 14°F<br>10°C   |                    | TC    | 35664           | 35651            | 35798            | 36112            | 37232            | 37454            | 37433            | 37415            | 37412            | 37392            | 38749            | 38730            | 38700            | 38695            | 38663            | 41185            | 41173            | 41143            | 41133            | 41070            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 1.64            | 1.64             | 1.64             | 1.64             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 17°F<br>10°C   |                    | TC    | 35640           | 35649            | 36086            | 36294            | 37462            | 37430            | 37433            | 37441            | 37442            | 37619            | 38623            | 38638            | 38663            | 38665            | 38675            | 41192            | 41179            | 41184            | 41192            | 41230            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 1.62            | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 23°F<br>5°C    |                    | TC    | 34820           | 34868            | 35435            | 35609            | 36773            | 36607            | 36616            | 36621            | 36622            | 36839            | 37898            | 37896            | 37908            | 37910            | 37916            | 40341            | 40329            | 40330            | 40335            | 40363            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 1.75            | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.78             | 1.78             | 1.78             | 1.78             | 1.78             | 1.81             | 1.81             | 1.81             | 1.81             | 1.81             |
| 35°F<br>1.7°C  |                    | TC    | 33656           | 33657            | 33722            | 33760            | 34628            | 35271            | 35266            | 35268            | 35269            | 35269            | 36405            | 36402            | 36398            | 36398            | 36403            | 38513            | 38504            | 38496            | 38501            | 38495            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 1.89            | 1.89             | 1.90             | 1.90             | 1.96             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |
| 41°F<br>5°C    |                    | TC    | 33600           | 33601            | 33694            | 33739            | 34697            | 35204            | 35200            | 35201            | 35201            | 35232            | 36330            | 36326            | 36323            | 36324            | 36328            | 38422            | 38413            | 38405            | 38409            | 38403            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 1.78            | 1.78             | 1.78             | 1.79             | 1.85             | 1.89             | 1.89             | 1.89             | 1.89             | 1.89             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             |
| 47°F<br>8.3°C  |                    | TC    | 33540           | 33540            | 33670            | 33728            | 34766            | 35136            | 35131            | 35132            | 35132            | 35186            | 36255            | 36251            | 36249            | 36249            | 36251            | 38336            | 38326            | 38323            | 38322            | 38316            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 1.66            | 1.66             | 1.67             | 1.67             | 1.74             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 2.02             | 2.02             | 2.02             | 2.02             | 2.02             |
| 50°F<br>10°C   |                    | TC    | 32994           | 33533            | 34653            | 34852            | 36187            | 34933            | 34953            | 35067            | 35112            | 36229            | 36308            | 36355            | 36376            | 36378            | 36542            | 38924            | 38943            | 39037            | 39048            | 39100            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 1.96            | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             | 1.96             |
| 59°F<br>15°C   |                    | TC    | 33214           | 34014            | 35211            | 35423            | 36848            | 35241            | 35256            | 35431            | 35500            | 36890            | 36704            | 36743            | 36758            | 36760            | 37003            | 39507            | 39518            | 39595            | 39604            | 39643            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.26            | 2.27             | 2.27             | 2.28             | 2.28             | 2.28             | 2.27             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.28             | 2.30             | 2.30             | 2.30             | 2.30             | 2.29             |
| 68°F<br>20°C   |                    | TC    | 33461           | 34541            | 35812            | 36037            | 37553            | 35553            | 35564            | 35842            | 36076            | 37595            | 37100            | 37130            | 37141            | 37142            | 37565            | 40060            | 40073            | 40137            | 40145            | 40174            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.56            | 2.58             | 2.59             | 2.59             | 2.61             | 2.59             | 2.59             | 2.59             | 2.59             | 2.61             | 2.61             | 2.60             | 2.60             | 2.60             | 2.61             | 2.64             | 2.64             | 2.64             | 2.64             | 2.64             |
| 77°F<br>25°C   |                    | TC    | 33640           | 34929            | 36283            | 36524            | 38139            | 35827            | 35844            | 36256            | 36567            | 38183            | 37463            | 37506            | 37523            | 37567            | 38218            | 40574            | 40611            | 40702            | 40712            | 40756            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.89            | 2.90             | 2.92             | 2.92             | 2.93             | 2.91             | 2.91             | 2.91             | 2.92             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.93             | 2.96             | 2.96             | 2.96             | 2.96             | 2.96             |
| 82°F<br>27.8°C |                    | TC    | 33621           | 35047            | 36443            | 36692            | 38360            | 35840            | 35898            | 36488            | 36736            | 38403            | 37517            | 37567            | 37586            | 37645            | 38438            | 40694            | 40746            | 40848            | 40859            | 40908            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 3.14            | 3.15             | 3.16             | 3.17             | 3.18             | 3.16             | 3.16             | 3.17             | 3.17             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.18             | 3.21             | 3.21             | 3.21             | 3.21             | 3.20             |
| 86°F<br>30°C   |                    | TC    | 33435           | 34984            | 36403            | 36654            | 38362            | 35643            | 35717            | 36447            | 36698            | 38392            | 37343            | 37387            | 37446            | 37480            | 38428            | 40553            | 40612            | 40707            | 40717            | 40760            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 3.42            | 3.43             | 3.45             | 3.45             | 3.48             | 3.44             | 3.44             | 3.45             | 3.45             | 3.47             | 3.47             | 3.46             | 3.46             | 3.46             | 3.47             | 3.51             | 3.51             | 3.50             | 3.50             | 3.50             |
| 95°F<br>35°C   |                    | TC    | 33435           | 33495            | 34214            | 34415            | 35765            | 35574            | 35582            | 35594            | 35596            | 35838            | 37110            | 37114            | 37132            | 37135            | 37152            | 40061            | 40046            | 40051            | 40049            | 40079            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 3.90            | 3.90             | 3.94             | 3.95             | 4.03             | 4.02             | 4.               |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 52 – 37MURA + 45MULA Cooling Performance (48K - 60D) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1050           | -13°F<br>25°C      | TC    | 40484           | 40465            | 41043            | 41213            | 42347            | 42239            | 42204            | 42177            | 42174            | 42139            | 43502            | 43447            | 43406            | 43400            | 43358            | 45886            | 45874            | 45779            | 45762            | 45665            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.98            | 1.98             | 1.98             | 1.98             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                | -4°F<br>20°C       | TC    | 43598           | 43578            | 44200            | 44383            | 45604            | 45488            | 45451            | 45422            | 45418            | 45380            | 46848            | 46789            | 46745            | 46738            | 46694            | 49416            | 49402            | 49301            | 49282            | 49178            |
|                |                    | S/T   | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.05            | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                | 0°F<br>17.8°C      | TC    | 45045           | 45018            | 45854            | 46045            | 47310            | 46977            | 46925            | 46889            | 46883            | 47354            | 48358            | 48289            | 48229            | 48222            | 48199            | 50958            | 50946            | 50942            | 50949            | 50982            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.07            | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 5°F<br>15°C        | TC    | 46336           | 46496            | 47559            | 47778            | 49250            | 48510            | 48522            | 48525            | 48575            | 49299            | 50061            | 50074            | 50084            | 50085            | 50152            | 52997            | 52981            | 53009            | 53014            | 53038            |
|                |                    | S/T   | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.09            | 2.09             | 2.09             | 2.09             | 2.10             | 2.09             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.16             | 2.15             | 2.16             | 2.16             | 2.16             |
|                | 14°F<br>10°C       | TC    | 46106           | 46082            | 47023            | 47244            | 48709            | 48395            | 48352            | 48319            | 48314            | 48766            | 50053            | 49990            | 49939            | 49931            | 49881            | 53222            | 53205            | 53103            | 53085            | 52972            |
|                |                    | S/T   | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.09            | 2.09             | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 17°F<br>10°C       | TC    | 45921           | 46071            | 47136            | 47365            | 48904            | 48207            | 48227            | 48236            | 48276            | 48957            | 49852            | 49871            | 49891            | 49893            | 49955            | 53019            | 53004            | 52996            | 53006            | 53051            |
|                |                    | S/T   | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.07            | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 23°F<br>5°C        | TC    | 44980           | 45173            | 46342            | 46570            | 48105            | 47257            | 47272            | 47277            | 47339            | 48157            | 48887            | 48904            | 48917            | 48918            | 48997            | 51982            | 51966            | 52003            | 52010            | 52040            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.24            | 2.24             | 2.25             | 2.25             | 2.26             | 2.25             | 2.25             | 2.25             | 2.26             | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             |
|                | 35°F<br>1.7°C      | TC    | 43510           | 43511            | 43767            | 43889            | 45305            | 45544            | 45542            | 45546            | 45546            | 45667            | 46969            | 46966            | 46969            | 46970            | 46974            | 49614            | 49602            | 49600            | 49598            | 49602            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.42            | 2.42             | 2.43             | 2.44             | 2.54             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.91             | 2.91             | 2.91             | 2.90             | 2.91             |
|                | 41°F<br>5°C        | TC    | 43434           | 43435            | 43781            | 44085            | 45388            | 45454            | 45453            | 45456            | 45456            | 45615            | 46872            | 46869            | 46872            | 46873            | 46876            | 49502            | 49490            | 49487            | 49485            | 49490            |
|                |                    | S/T   | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.27            | 2.27             | 2.29             | 2.31             | 2.40             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             |
|                | 47°F<br>8.3°C      | TC    | 43357           | 43386            | 43967            | 44164            | 45471            | 45367            | 45366            | 45367            | 45366            | 45576            | 46776            | 46772            | 46775            | 46775            | 46775            | 49395            | 49382            | 49378            | 49376            | 49381            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.12            | 2.12             | 2.16             | 2.18             | 2.27             | 2.26             | 2.26             | 2.26             | 2.26             | 2.28             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |
|                | 50°F<br>10°C       | TC    | 42685           | 43860            | 45340            | 45603            | 47371            | 45095            | 45120            | 45432            | 45575            | 47416            | 46854            | 46915            | 46940            | 46943            | 47394            | 50084            | 50216            | 50345            | 50360            | 50423            |
|                |                    | S/T   | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.51            | 2.51             | 2.51             | 2.51             | 2.50             | 2.51             | 2.51             | 2.51             | 2.51             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
|                | 59°F<br>15°C       | TC    | 42996           | 44505            | 46084            | 46365            | 48252            | 45492            | 45554            | 46071            | 46415            | 48299            | 47369            | 47417            | 47433            | 47502            | 48339            | 50865            | 50967            | 51068            | 51080            | 51122            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.89            | 2.90             | 2.91             | 2.91             | 2.92             | 2.91             | 2.91             | 2.91             | 2.91             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.94             | 2.94             | 2.93             | 2.93             | 2.93             |
|                | 68°F<br>20°C       | TC    | 43285           | 45132            | 46806            | 47104            | 49102            | 45824            | 45927            | 46857            | 47155            | 49151            | 47805            | 47841            | 47927            | 47969            | 49192            | 51510            | 51605            | 51686            | 51695            | 51722            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 3.28            | 3.30             | 3.32             | 3.32             | 3.34             | 3.31             | 3.31             | 3.32             | 3.32             | 3.34             | 3.33             | 3.33             | 3.33             | 3.33             | 3.34             | 3.38             | 3.37             | 3.37             | 3.37             | 3.37             |
|                | 77°F<br>25°C       | TC    | 43535           | 45631            | 47417            | 47733            | 49866            | 46152            | 46299            | 47469            | 47786            | 49916            | 48243            | 48297            | 48420            | 48474            | 49958            | 52104            | 52262            | 52383            | 52396            | 52445            |
|                |                    | S/T   | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 3.69            | 3.71             | 3.73             | 3.73             | 3.75             | 3.72             | 3.72             | 3.73             | 3.73             | 3.75             | 3.74             | 3.74             | 3.74             | 3.74             | 3.75             | 3.79             | 3.78             | 3.78             | 3.78             | 3.78             |
|                | 82°F<br>27.8°C     | TC    | 43544           | 45767            | 47613            | 47935            | 50131            | 46143            | 46321            | 47654            | 47989            | 50183            | 48289            | 48350            | 48501            | 48561            | 50227            | 52211            | 52407            | 52544            | 52558            | 52615            |
|                |                    | S/T   | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 4.01            | 4.03             | 4.05             | 4.05             | 4.07             | 4.04             | 4.04             | 4.05             | 4.05             | 4.07             | 4.06             | 4.06             | 4.06             | 4.06             | 4.07             | 4.11             | 4.10             | 4.10             | 4.10             | 4.09             |
|                | 86°F<br>30°C       | TC    | 43537           | 45710            | 47580            | 47911            | 50143            | 45913            | 46124            | 47632            | 47966            | 50195            | 48089            | 48144            | 48321            | 48390            | 50238            | 52062            | 52263            | 52387            | 52400            | 52448            |
|                |                    | S/T   | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 4.37            | 4.40             | 4.42             | 4.42             | 4.44             | 4.40             | 4.40             | 4.42             | 4.42             | 4.44             | 4.43             | 4.42             | 4.43             | 4.43             | 4.44             | 4.49             | 4.48             | 4.47             | 4.47             | 4.47             |
|                | 95°F<br>35°C       | TC    | 43194           | 43427            | 44831            | 45096            | 46879            | 45906            | 45933            | 45947            | 46002            | 46938            | 47876            | 47886            | 47916            | 47920            | 48000            | 51589            | 51569            | 51580            | 51595            | 51664            |
|                |                    | S/T   | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 4.98            | 4.99             | 5.07             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 53 – 37MURA + 45MULA Heating Performance (48K -60D)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 790              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 1050             | -13°F (-25.0°C)                                    | 35327                               | 34620            | 34447            | 34309              | 34001              | 6.08                   | 6.13             | 6.14             | 6.15               | 6.18               |
|                  | -4°F (-20.0°C)                                     | 39295                               | 38509            | 38316            | 38163              | 37819              | 6.29                   | 6.34             | 6.35             | 6.37               | 6.39               |
|                  | 0°F (-17.8°C)                                      | 41597                               | 40765            | 40561            | 40399              | 40036              | 6.52                   | 6.58             | 6.59             | 6.60               | 6.63               |
|                  | 5°F (-15.0°C)                                      | 44476                               | 43586            | 43368            | 43195              | 42806              | 6.82                   | 6.87             | 6.88             | 6.90               | 6.93               |
|                  | 14°F (-10.0°C)                                     | 47961                               | 47002            | 46767            | 46580              | 46160              | 6.89                   | 6.94             | 6.96             | 6.97               | 7.00               |
|                  | 17°F (-8.3°C)                                      | 49123                               | 48140            | 47900            | 47708              | 47279              | 6.91                   | 6.97             | 6.98             | 7.00               | 7.02               |
|                  | 22°F (-5.6°C)                                      | 42860                               | 42002            | 41792            | 41625              | 41251              | 5.90                   | 5.95             | 5.96             | 5.98               | 6.00               |
|                  | 27°F (-2.8°C)                                      | 36596                               | 35864            | 35685            | 35542              | 35223              | 4.90                   | 4.94             | 4.95             | 4.95               | 4.97               |
|                  | 32°F (0.0°C)                                       | 30333                               | 29727            | 29578            | 29460              | 29194              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 35°F (1.7°C)                                       | 26575                               | 26044            | 25914            | 25810              | 25578              | 3.28                   | 3.31             | 3.32             | 3.32               | 3.34               |
|                  | 37°F (2.8°C)                                       | 30858                               | 30241            | 30090            | 29969              | 29700              | 3.54                   | 3.57             | 3.58             | 3.58               | 3.60               |
|                  | 42°F (5.6°C)                                       | 41565                               | 40733            | 40530            | 40368              | 40004              | 4.18                   | 4.22             | 4.22             | 4.23               | 4.25               |
|                  | 44.6°F (7.0°C)                                     | 45847                               | 44930            | 44706            | 44527              | 44126              | 4.44                   | 4.47             | 4.48             | 4.49               | 4.51               |
|                  | 47°F (8.3°C)                                       | 52271                               | 51226            | 50970            | 50766              | 50309              | 4.82                   | 4.86             | 4.87             | 4.88               | 4.90               |
|                  | 52°F (11.1°C)                                      | 50562                               | 49550            | 49303            | 49105              | 48663              | 4.35                   | 4.38             | 4.39             | 4.40               | 4.42               |
|                  | 57F (13.9°C)                                       | 48852                               | 47875            | 47635            | 47445              | 47018              | 3.87                   | 3.90             | 3.91             | 3.92               | 3.93               |
|                  | 59°F (15.0°C)                                      | 48168                               | 47205            | 46969            | 46781              | 46360              | 3.68                   | 3.71             | 3.72             | 3.73               | 3.74               |
|                  | 62°F (16.7°C)                                      | 47142                               | 46199            | 45968            | 45784              | 45372              | 3.40                   | 3.42             | 3.43             | 3.44               | 3.45               |
|                  | 64.4°F (18.0°C)                                    | 46321                               | 45395            | 45168            | 44987              | 44582              | 3.17                   | 3.19             | 3.20             | 3.21               | 3.22               |
|                  | 69.8°F (21.0°C)                                    | 44475                               | 43585            | 43368            | 43194              | 42805              | 2.65                   | 2.67             | 2.68             | 2.69               | 2.70               |
|                  | 75.2°F (24.0°C)                                    | 42628                               | 41776            | 41567            | 41401              | 41028              | 2.14                   | 2.16             | 2.16             | 2.16               | 2.17               |

Table 54 – 37MURA + 45MULA Cooling Performance (54K - 60C)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    |       |                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 785            | -13°F<br>25°C      | TC    | 37474           | 37461            | 37450            | 37668            | 38777            | 39124            | 39102            | 39085            | 39082            | 39055            | 40292            | 40271            | 40244            | 40239            | 40212            | 42503            | 42491            | 42460            | 42449            | 42386            |
|                |                    | S/T   | 0.77            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.10            | 2.10             | 2.10             | 2.09             | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.09             | 2.09             |
|                | -4°F<br>20°C       | TC    | 40357           | 40342            | 40331            | 40566            | 41760            | 42133            | 42110            | 42091            | 42088            | 42059            | 43391            | 43368            | 43340            | 43335            | 43305            | 45772            | 45760            | 45726            | 45715            | 45647            |
|                |                    | S/T   | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.17            | 2.17             | 2.17             | 2.17             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             | 2.15             | 2.15             | 2.15             | 2.15             | 2.15             | 2.16             | 2.16             | 2.16             | 2.16             | 2.16             |
|                | 0°F<br>17.8°C      | TC    | 41688           | 41670            | 41831            | 42150            | 43318            | 43506            | 43473            | 43448            | 43444            | 43437            | 44782            | 44756            | 44716            | 44709            | 44670            | 47196            | 47182            | 47184            | 47189            | 47224            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.19            | 2.19             | 2.19             | 2.19             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.18             | 2.19             | 2.20             | 2.20             | 2.20             | 2.20             | 2.20             |
|                | 5°F<br>15°C        | TC    | 42915           | 42953            | 43532            | 43732            | 45069            | 44955            | 44965            | 44970            | 44970            | 45192            | 46427            | 46423            | 46435            | 46436            | 46442            | 49201            | 49186            | 49187            | 49190            | 49218            |
|                |                    | S/T   | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.21            | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.21             | 2.22             | 2.23             | 2.23             | 2.23             | 2.23             | 2.23             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             |
|                | 14°F<br>10°C       | TC    | 42889           | 42873            | 43050            | 43427            | 44774            | 45042            | 45016            | 44994            | 44991            | 44967            | 46598            | 46576            | 46540            | 46534            | 46495            | 49528            | 49513            | 49477            | 49466            | 49390            |
|                |                    | S/T   | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                |                    | PI    | 2.79            | 2.79             | 2.79             | 2.79             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             | 2.77             | 2.77             | 2.77             | 2.77             | 2.77             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|                | 17°F<br>10°C       | TC    | 42934           | 42944            | 43471            | 43721            | 45129            | 45089            | 45093            | 45103            | 45104            | 45317            | 46527            | 46545            | 46575            | 46577            | 46589            | 49622            | 49606            | 49612            | 49621            | 49667            |
|                |                    | S/T   | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                |                    | PI    | 2.96            | 2.96             | 2.96             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             | 2.97             | 2.97             | 2.97             | 2.97             | 2.97             |
|                | 23°F<br>5°C        | TC    | 42215           | 42274            | 42961            | 43172            | 44583            | 44382            | 44393            | 44399            | 44400            | 44663            | 45947            | 45945            | 45959            | 45961            | 45969            | 48909            | 48894            | 48896            | 48902            | 48936            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                |                    | PI    | 3.25            | 3.25             | 3.25             | 3.26             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.27             | 3.29             | 3.29             | 3.29             | 3.29             | 3.29             | 3.35             | 3.35             | 3.35             | 3.35             | 3.35             |
|                | 35°F<br>1.7°C      | TC    | 41359           | 41360            | 41440            | 41486            | 42552            | 43343            | 43337            | 43339            | 43340            | 43341            | 44736            | 44733            | 44728            | 44728            | 44733            | 47327            | 47316            | 47306            | 47312            | 47304            |
|                |                    | S/T   | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                |                    | PI    | 3.59            | 3.59             | 3.60             | 3.60             | 3.71             | 3.80             | 3.80             | 3.80             | 3.80             | 3.80             | 3.96             | 3.96             | 3.96             | 3.96             | 3.97             | 4.31             | 4.31             | 4.31             | 4.31             | 4.31             |
|                | 41°F<br>5°C        | TC    | 39964           | 39965            | 40076            | 40130            | 41269            | 41872            | 41867            | 41869            | 41869            | 41906            | 43212            | 43207            | 43204            | 43204            | 43209            | 45700            | 45689            | 45679            | 45684            | 45678            |
|                |                    | S/T   | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                |                    | PI    | 2.85            | 2.85             | 2.86             | 2.87             | 2.97             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.17             | 3.17             | 3.17             | 3.16             | 3.17             | 3.45             | 3.45             | 3.45             | 3.45             | 3.45             |
|                | 47°F<br>8.3°C      | TC    | 38565           | 38566            | 38714            | 38781            | 39975            | 40400            | 40395            | 40396            | 40396            | 40457            | 41687            | 41683            | 41679            | 41680            | 41682            | 44079            | 44068            | 44065            | 44064            | 44057            |
|                |                    | S/T   | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                |                    | PI    | 2.12            | 2.12             | 2.13             | 2.14             | 2.23             | 2.26             | 2.26             | 2.26             | 2.26             | 2.27             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |
|                | 50°F<br>10°C       | TC    | 37507           | 38120            | 39394            | 39619            | 41137            | 39711            | 39735            | 39864            | 39915            | 41185            | 41275            | 41328            | 41352            | 41355            | 41541            | 44248            | 44270            | 44377            | 44390            | 44449            |
|                |                    | S/T   | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                |                    | PI    | 2.42            | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             | 2.42             |
|                | 59°F<br>15°C       | TC    | 36478           | 37356            | 38671            | 38903            | 40469            | 38704            | 38721            | 38913            | 38988            | 40515            | 40311            | 40354            | 40370            | 40372            | 40639            | 43389            | 43401            | 43486            | 43496            | 43538            |
|                |                    | S/T   | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                |                    | PI    | 2.56            | 2.57             | 2.57             | 2.58             | 2.58             | 2.58             | 2.57             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             |
|                | 68°F<br>20°C       | TC    | 35487           | 36631            | 37979            | 38219            | 39826            | 37704            | 37716            | 38011            | 38259            | 39870            | 39345            | 39378            | 39389            | 39390            | 39838            | 42485            | 42499            | 42567            | 42575            | 42605            |
|                |                    | S/T   | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                |                    | PI    | 2.70            | 2.72             | 2.73             | 2.73             | 2.75             | 2.73             | 2.73             | 2.73             | 2.73             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.75             | 2.78             | 2.78             | 2.78             | 2.78             | 2.78             |
|                | 77°F<br>25°C       | TC    | 34432           | 35751            | 37138            | 37384            | 39037            | 36671            | 36689            | 37110            | 37429            | 39083            | 38345            | 38389            | 38407            | 38452            | 39118            | 41530            | 41568            | 41661            | 41671            | 41716            |
|                |                    | S/T   | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.87            | 2.88             | 2.90             | 2.90             | 2.91             | 2.89             | 2.89             | 2.90             | 2.90             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.91             | 2.94             | 2.94             | 2.94             | 2.94             | 2.94             |
|                | 82°F<br>27.8°C     | TC    | 34120           | 35567            | 36984            | 37236            | 38929            | 36372            | 36431            | 37029            | 37281            | 38973            | 38074            | 38124            | 38143            | 38203            | 39009            | 41298            | 41350            | 41454            | 41465            | 41515            |
|                |                    | S/T   | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                |                    | PI    | 3.16            | 3.17             | 3.19             | 3.19             | 3.20             | 3.18             | 3.18             | 3.19             | 3.19             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.20             | 3.23             | 3.23             | 3.23             | 3.23             | 3.23             |
|                | 86°F<br>30°C       | TC    | 34186           | 35770            | 37221            | 37477            | 39224            | 36444            | 36520            | 37266            | 37523            | 39255            | 38182            | 38228            | 38288            | 38322            | 39292            | 41464            | 41524            | 41621            | 41632            | 41675            |
|                |                    | S/T   | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                |                    | PI    | 3.63            | 3.65             | 3.66             | 3.67             | 3.69             | 3.66             | 3.66             | 3.66             | 3.67             | 3.69             | 3.68             | 3.68             | 3.68             | 3.68             | 3.69             | 3.72             | 3.72             | 3.72             | 3.72             | 3.71             |
|                | 95°F<br>35°C       | TC    | 34768           | 34830            | 35577            | 35787            | 37190            | 36991            | 37000            | 37013            | 37015            | 37266            | 38589            | 38593            | 38612            | 38615            | 38633            | 41657            | 41643            | 41647            | 41645            | 41676            |
|                |                    | S/T   | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 4.51            | 4.52             | 4.56             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 54 – 37MURA + 45MULA Cooling Performance (54K - 60C) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 1047  | -13°F<br>25°C   | TC               | 48604            | 48582            | 49275            | 49479            | 50841            | 50711            | 50669            | 50637            | 50633            | 50591            | 52227            | 52162            | 52112            | 52105            | 52055            | 55090            | 55075            | 54962            |
| S/T            | 0.80               |       |                 | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
| PI             | 2.68               |       |                 | 2.68             | 2.68             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.66             | 2.66             | 2.66             | 2.66             | 2.67             | 2.68             | 2.68             | 2.68             | 2.68             | 2.68             |
| -4°F<br>20°C   | TC                 |       | 52343           | 52319            | 53065            | 53285            | 54752            | 54612            | 54567            | 54533            | 54528            | 54482            | 56245            | 56174            | 56121            | 56113            | 56059            | 59328            | 59311            | 59190            | 59168            | 59042            |
|                | S/T                |       | 0.80            | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 2.78            | 2.78             | 2.77             | 2.77             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.76             | 2.77             | 2.77             | 2.78             | 2.78             |
| 0°F<br>17.8°C  | TC                 |       | 54080           | 54048            | 55051            | 55281            | 56799            | 56400            | 56337            | 56293            | 56287            | 56853            | 58057            | 57975            | 57903            | 57894            | 57866            | 61179            | 61165            | 61160            | 61168            | 61208            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 2.80            | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.80             | 2.83             | 2.83             | 2.83             | 2.83             | 2.83             |
| 5°F<br>15°C    | TC                 |       | 55630           | 55822            | 57098            | 57361            | 59129            | 58240            | 58254            | 58258            | 58318            | 59187            | 60102            | 60117            | 60130            | 60131            | 60211            | 63627            | 63608            | 63641            | 63648            | 63676            |
|                | S/T                |       | 0.82            | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 2.82            | 2.82             | 2.83             | 2.83             | 2.84             | 2.83             | 2.83             | 2.84             | 2.84             | 2.84             | 2.85             | 2.85             | 2.86             | 2.86             | 2.86             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             |
| 14°F<br>10°C   | TC                 |       | 55639           | 55611            | 56746            | 57012            | 58780            | 58402            | 58350            | 58310            | 58304            | 58850            | 60402            | 60327            | 60265            | 60256            | 60195            | 64227            | 64207            | 64084            | 64062            | 63925            |
|                | S/T                |       | 0.81            | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                | PI                 |       | 3.57            | 3.57             | 3.56             | 3.56             | 3.56             | 3.55             | 3.56             | 3.56             | 3.56             | 3.56             | 3.55             | 3.55             | 3.55             | 3.55             | 3.55             | 3.57             | 3.57             | 3.57             | 3.57             | 3.57             |
| 17°F<br>10°C   | TC                 |       | 55512           | 55693            | 56980            | 57258            | 59118            | 58275            | 58299            | 58310            | 58359            | 59181            | 60264            | 60287            | 60311            | 60313            | 60388            | 64092            | 64074            | 64065            | 64077            | 64130            |
|                | S/T                |       | 0.82            | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 3.78            | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.78             | 3.79             | 3.79             | 3.79             | 3.79             | 3.82             | 3.82             | 3.82             | 3.82             | 3.82             |
| 23°F<br>5°C    | TC                 |       | 54723           | 54959            | 56380            | 56659            | 58526            | 57494            | 57512            | 57518            | 57593            | 58589            | 59477            | 59498            | 59513            | 59515            | 59611            | 63243            | 63223            | 63268            | 63276            | 63313            |
|                | S/T                |       | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                | PI                 |       | 4.16            | 4.16             | 4.18             | 4.18             | 4.20             | 4.19             | 4.19             | 4.19             | 4.19             | 4.20             | 4.22             | 4.22             | 4.22             | 4.22             | 4.22             | 4.30             | 4.30             | 4.30             | 4.30             | 4.30             |
| 35°F<br>1.7°C  | TC                 |       | 53654           | 53655            | 53971            | 54121            | 55867            | 56162            | 56159            | 56164            | 56164            | 56314            | 57920            | 57916            | 57919            | 57920            | 57926            | 61181            | 61166            | 61163            | 61161            | 61166            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                | PI                 |       | 4.60            | 4.60             | 4.63             | 4.64             | 4.84             | 4.87             | 4.87             | 4.87             | 4.87             | 4.89             | 5.08             | 5.08             | 5.08             | 5.08             | 5.08             | 5.53             | 5.53             | 5.53             | 5.52             | 5.53             |
| 41°F<br>5°C    | TC                 |       | 51842           | 51843            | 52255            | 52618            | 54174            | 54253            | 54252            | 54254            | 54255            | 54445            | 55945            | 55942            | 55945            | 55946            | 55949            | 59084            | 59070            | 59066            | 59063            | 59070            |
|                | S/T                |       | 0.78            | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                | PI                 |       | 3.65            | 3.65             | 3.69             | 3.72             | 3.87             | 3.88             | 3.88             | 3.88             | 3.88             | 3.90             | 4.06             | 4.06             | 4.06             | 4.06             | 4.06             | 4.42             | 4.42             | 4.42             | 4.42             | 4.42             |
| 47°F<br>8.3°C  | TC                 |       | 50027           | 50060            | 50731            | 50958            | 52466            | 52346            | 52345            | 52346            | 52345            | 52588            | 53972            | 53967            | 53971            | 53970            | 53970            | 56994            | 56979            | 56975            | 56972            | 56978            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                | PI                 |       | 2.72            | 2.72             | 2.77             | 2.79             | 2.91             | 2.90             | 2.90             | 2.90             | 2.90             | 2.92             | 3.03             | 3.03             | 3.03             | 3.03             | 3.03             | 3.31             | 3.31             | 3.31             | 3.31             | 3.31             |
| 50°F<br>10°C   | TC                 |       | 48694           | 50034            | 51723            | 52022            | 54039            | 51443            | 51471            | 51827            | 51990            | 54091            | 53450            | 53519            | 53547            | 53551            | 54065            | 57134            | 57285            | 57432            | 57449            | 57521            |
|                | S/T                |       | 0.90            | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                | PI                 |       | 3.11            | 3.11             | 3.11             | 3.11             | 3.10             | 3.11             | 3.11             | 3.11             | 3.11             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             | 3.10             |
| 59°F<br>15°C   | TC                 |       | 47386           | 49049            | 50790            | 51099            | 53178            | 50137            | 50205            | 50775            | 51153            | 53231            | 52205            | 52258            | 52276            | 52352            | 53274            | 56058            | 56170            | 56282            | 56295            | 56342            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 3.29            | 3.30             | 3.31             | 3.31             | 3.32             | 3.30             | 3.30             | 3.31             | 3.31             | 3.32             | 3.31             | 3.31             | 3.31             | 3.31             | 3.32             | 3.34             | 3.33             | 3.33             | 3.33             | 3.33             |
| 68°F<br>20°C   | TC                 |       | 46065           | 48031            | 49812            | 50129            | 52256            | 48767            | 48877            | 49866            | 50183            | 52308            | 50875            | 50914            | 51005            | 51050            | 52351            | 54818            | 54920            | 55006            | 55015            | 55044            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                | PI                 |       | 3.47            | 3.49             | 3.51             | 3.51             | 3.53             | 3.50             | 3.50             | 3.51             | 3.51             | 3.53             | 3.52             | 3.52             | 3.52             | 3.52             | 3.53             | 3.57             | 3.57             | 3.57             | 3.57             | 3.56             |
| 77°F<br>25°C   | TC                 |       | 44716           | 46869            | 48703            | 49028            | 51218            | 47405            | 47555            | 48757            | 49082            | 51270            | 49552            | 49607            | 49734            | 49790            | 51313            | 53518            | 53680            | 53804            | 53818            | 53868            |
|                | S/T                |       | 0.97            | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                | PI                 |       | 3.68            | 3.70             | 3.72             | 3.72             | 3.74             | 3.71             | 3.71             | 3.72             | 3.72             | 3.74             | 3.73             | 3.73             | 3.73             | 3.73             | 3.74             | 3.78             | 3.77             | 3.77             | 3.77             | 3.77             |
| 82°F<br>27.8°C | TC                 |       | 44344           | 46608            | 48488            | 48817            | 51052            | 46991            | 47173            | 48530            | 48871            | 51106            | 49177            | 49239            | 49392            | 49453            | 51151            | 53171            | 53371            | 53510            | 53524            | 53582            |
|                | S/T                |       | 0.99            | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                | PI                 |       | 4.05            | 4.07             | 4.09             | 4.09             | 4.11             | 4.08             | 4.08             | 4.09             | 4.09             | 4.11             | 4.10             | 4.10             | 4.10             | 4.10             | 4.11             | 4.15             | 4.14             | 4.14             | 4.14             | 4.14             |
| 86°F<br>30°C   | TC                 |       | 44671           | 46901            | 48819            | 49159            | 51449            | 47109            | 47326            | 48873            | 49215            | 51502            | 49341            | 49398            | 49579            | 49651            | 51546            | 53418            | 53624            | 53751            | 53764            | 53814            |
|                | S/T                |       | 1.00            | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                | PI                 |       | 4.66            | 4.68             | 4.71             | 4.71             | 4.73             | 4.69             | 4.69             | 4.71             | 4.71             | 4.73             | 4.72             | 4.71             | 4.72             | 4.72             | 4.74             | 4.78             | 4.77             | 4.77             | 4.77             | 4.76             |
| 95°F<br>35°C   | TC                 |       | 45073           | 45316            | 46780            | 47058            | 48918            | 47903            | 47930            | 47946            | 48002            | 48979            | 49958            | 49969            | 49999            | 50004            | 50087            | 53832            | 53812            | 53823            | 53838            | 53910            |
|                | S/T                |       | 0.83            | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                | PI                 |       | 5.78            | 5.80             | 5.89             | 5.91             | 6.03             | 5.97             | 5.97             | 5.97             | 5.97             | 6.03             | 6.10             | 6.10             | 6.10             | 6.10             | 6.11             | 6.35             | 6.35             | 6.35             | 6.35             | 6.35             |
| 104°F<br>40°C  | TC                 |       | 41936           | 42320            | 43913            | 44178            | 459              |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 55 – 37MURA + 45MULA Heating Performance (54K -60C)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 785              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 1047             | -13°F (-25.0°C)                                    | 28990                               | 28410            | 28268            | 28155              | 27902              | 5.43                   | 5.48             | 5.49             | 5.50               | 5.52               |
|                  | -4°F (-20.0°C)                                     | 33896                               | 33218            | 33052            | 32920              | 32624              | 5.88                   | 5.92             | 5.94             | 5.95               | 5.97               |
|                  | 0°F (-17.8°C)                                      | 36411                               | 35683            | 35504            | 35362              | 35044              | 6.08                   | 6.13             | 6.15             | 6.16               | 6.18               |
|                  | 5°F (-15.0°C)                                      | 39554                               | 38763            | 38570            | 38415              | 38070              | 6.34                   | 6.39             | 6.41             | 6.42               | 6.45               |
|                  | 14°F (-10.0°C)                                     | 43055                               | 42194            | 41983            | 41815              | 41439              | 6.29                   | 6.34             | 6.35             | 6.36               | 6.39               |
|                  | 17°F (-8.3°C)                                      | 44222                               | 43338            | 43121            | 42948              | 42562              | 6.27                   | 6.32             | 6.33             | 6.34               | 6.37               |
|                  | 22°F (-5.6°C)                                      | 43222                               | 42357            | 42146            | 41977              | 41599              | 6.02                   | 6.07             | 6.08             | 6.09               | 6.11               |
|                  | 27°F (-2.8°C)                                      | 42222                               | 41377            | 41170            | 41006              | 40637              | 5.77                   | 5.81             | 5.82             | 5.84               | 5.86               |
|                  | 32°F (0.0°C)                                       | 41221                               | 40397            | 40195            | 40034              | 39674              | 5.51                   | 5.56             | 5.57             | 5.58               | 5.60               |
|                  | 35°F (1.7°C)                                       | 40621                               | 39809            | 39610            | 39451              | 39096              | 5.36                   | 5.41             | 5.42             | 5.43               | 5.45               |
|                  | 37°F (2.8°C)                                       | 42468                               | 41619            | 41411            | 41245              | 40874              | 5.31                   | 5.35             | 5.36             | 5.37               | 5.39               |
|                  | 42°F (5.6°C)                                       | 47086                               | 46144            | 45913            | 45730              | 45318              | 5.16                   | 5.21             | 5.22             | 5.23               | 5.25               |
|                  | 44.6°F (7.0°C)                                     | 48933                               | 47954            | 47714            | 47523              | 47096              | 5.11                   | 5.15             | 5.16             | 5.17               | 5.19               |
|                  | 47°F (8.3°C)                                       | 51703                               | 50669            | 50416            | 50214              | 49762              | 5.02                   | 5.06             | 5.07             | 5.08               | 5.10               |
|                  | 52°F (11.1°C)                                      | 51561                               | 50530            | 50277            | 50076              | 49626              | 4.69                   | 4.73             | 4.74             | 4.74               | 4.76               |
|                  | 57F (13.9°C)                                       | 51420                               | 50391            | 50139            | 49939              | 49489              | 4.35                   | 4.39             | 4.40             | 4.41               | 4.42               |
|                  | 59°F (15.0°C)                                      | 51363                               | 50336            | 50084            | 49884              | 49435              | 4.22                   | 4.25             | 4.26             | 4.27               | 4.29               |
|                  | 62°F (16.7°C)                                      | 51278                               | 50252            | 50001            | 49801              | 49353              | 4.02                   | 4.05             | 4.06             | 4.07               | 4.08               |
|                  | 64.4°F (18.0°C)                                    | 51210                               | 50186            | 49935            | 49735              | 49287              | 3.86                   | 3.89             | 3.90             | 3.91               | 3.92               |
|                  | 69.8°F (21.0°C)                                    | 47903                               | 46945            | 46710            | 46523              | 46105              | 3.50                   | 3.53             | 3.53             | 3.54               | 3.55               |
|                  | 75.2°F (24.0°C)                                    | 42994                               | 42134            | 41923            | 41756              | 41380              | 3.14                   | 3.16             | 3.17             | 3.18               | 3.19               |

Table 56 – 37MURA + 45MULA Cooling Performance (54K - 60D)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C) |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | ID DB           | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C |
|                |                    | 785   | -13°F<br>25°C   | TC               | 31213            | 31202            | 31194            | 31375            | 32298            | 32587            | 32570            | 32555            | 32553            | 32530            | 33560            | 33543            | 33520            | 33517            | 33493            | 35402            | 35392            | 35366            |
| S/T            | 0.77               |       |                 | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.81             | 0.83             | 0.93             | 0.54             | 0.63             | 0.71             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
| PI             | 1.55               |       |                 | 1.55             | 1.55             | 1.55             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.53             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             | 1.54             |
| -4°F<br>20°C   | TC                 |       | 33614           | 33602            | 33593            | 33788            | 34783            | 35094            | 35075            | 35059            | 35057            | 35032            | 36142            | 36123            | 36099            | 36095            | 36070            | 38125            | 38115            | 38087            | 38077            | 38020            |
|                | S/T                |       | 0.78            | 0.88             | 0.97             | 1.00             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.64             | 0.72             | 0.73             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.60            | 1.60             | 1.60             | 1.60             | 1.60             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.59             | 1.60             | 1.60             | 1.60             | 1.60             | 1.60             |
| 0°F<br>17.8°C  | TC                 |       | 34724           | 34709            | 34843            | 35108            | 36081            | 36238            | 36210            | 36189            | 36186            | 36180            | 37300            | 37279            | 37245            | 37240            | 37207            | 39311            | 39299            | 39301            | 39305            | 39334            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.95             | 0.54             | 0.64             | 0.73             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.62            | 1.62             | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 5°F<br>15°C    | TC                 |       | 35745           | 35777            | 36260            | 36426            | 37539            | 37445            | 37452            | 37457            | 37457            | 37642            | 38670            | 38667            | 38677            | 38678            | 38683            | 40981            | 40969            | 40969            | 40972            | 40995            |
|                | S/T                |       | 0.79            | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.63            | 1.63             | 1.63             | 1.63             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.64             | 1.65             | 1.65             | 1.65             | 1.68             | 1.68             | 1.68             | 1.68             | 1.68             |
| 14°F<br>10°C   | TC                 |       | 35540           | 35527            | 35674            | 35986            | 37103            | 37324            | 37303            | 37284            | 37282            | 37262            | 38614            | 38595            | 38566            | 38561            | 38528            | 41042            | 41029            | 40999            | 40990            | 40927            |
|                | S/T                |       | 0.78            | 0.89             | 0.99             | 1.00             | 1.00             | 0.64             | 0.74             | 0.82             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.83             | 0.39             | 0.47             | 0.55             | 0.56             | 0.65             |
|                | PI                 |       | 1.63            | 1.63             | 1.63             | 1.63             | 1.63             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.62             | 1.62             | 1.62             | 1.62             | 1.62             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 17°F<br>10°C   | TC                 |       | 35516           | 35525            | 35960            | 36168            | 37332            | 37299            | 37302            | 37310            | 37311            | 37488            | 38489            | 38504            | 38528            | 38530            | 38540            | 41049            | 41036            | 41040            | 41048            | 41086            |
|                | S/T                |       | 0.79            | 0.89             | 1.00             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.85             | 0.95             | 0.55             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.66             |
|                | PI                 |       | 1.62            | 1.62             | 1.62             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.61             | 1.63             | 1.63             | 1.63             | 1.63             | 1.63             |
| 23°F<br>5°C    | TC                 |       | 34698           | 34747            | 35312            | 35485            | 36645            | 36479            | 36489            | 36494            | 36494            | 36710            | 37766            | 37764            | 37776            | 37778            | 37784            | 40200            | 40188            | 40190            | 40195            | 40223            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.97             | 0.54             | 0.65             | 0.74             | 0.75             | 0.85             | 0.39             | 0.47             | 0.56             | 0.57             | 0.66             |
|                | PI                 |       | 1.75            | 1.75             | 1.75             | 1.75             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.77             | 1.77             | 1.77             | 1.77             | 1.80             | 1.80             | 1.80             | 1.80             | 1.80             |
| 35°F<br>1.7°C  | TC                 |       | 33539           | 33540            | 33605            | 33643            | 34507            | 35148            | 35144            | 35145            | 35146            | 35147            | 36278            | 36275            | 36272            | 36272            | 36276            | 38379            | 38370            | 38362            | 38367            | 38361            |
|                | S/T                |       | 0.75            | 0.85             | 0.93             | 0.94             | 1.00             | 0.62             | 0.71             | 0.79             | 0.80             | 0.89             | 0.53             | 0.62             | 0.69             | 0.71             | 0.80             | 0.39             | 0.46             | 0.53             | 0.54             | 0.63             |
|                | PI                 |       | 1.89            | 1.89             | 1.89             | 1.89             | 1.95             | 2.00             | 2.00             | 2.00             | 2.00             | 2.00             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.27             | 2.27             | 2.26             | 2.27             | 2.26             |
| 41°F<br>5°C    | TC                 |       | 33483           | 33484            | 33576            | 33622            | 34576            | 35082            | 35077            | 35079            | 35079            | 35110            | 36204            | 36200            | 36197            | 36198            | 36202            | 38288            | 38279            | 38271            | 38275            | 38270            |
|                | S/T                |       | 0.76            | 0.86             | 0.94             | 0.96             | 1.00             | 0.62             | 0.72             | 0.80             | 0.81             | 0.90             | 0.53             | 0.62             | 0.70             | 0.71             | 0.81             | 0.39             | 0.46             | 0.53             | 0.55             | 0.64             |
|                | PI                 |       | 1.77            | 1.77             | 1.78             | 1.78             | 1.84             | 1.88             | 1.88             | 1.88             | 1.88             | 1.88             | 1.97             | 1.96             | 1.96             | 1.96             | 1.97             | 2.14             | 2.14             | 2.14             | 2.14             | 2.14             |
| 47°F<br>8.3°C  | TC                 |       | 33424           | 33424            | 33552            | 33611            | 34645            | 35014            | 35009            | 35010            | 35010            | 35063            | 36129            | 36125            | 36122            | 36123            | 36125            | 38202            | 38193            | 38190            | 38189            | 38183            |
|                | S/T                |       | 0.77            | 0.87             | 0.95             | 0.97             | 1.00             | 0.63             | 0.72             | 0.81             | 0.82             | 0.91             | 0.53             | 0.63             | 0.71             | 0.72             | 0.82             | 0.39             | 0.46             | 0.54             | 0.55             | 0.64             |
|                | PI                 |       | 1.65            | 1.65             | 1.66             | 1.67             | 1.74             | 1.76             | 1.76             | 1.76             | 1.76             | 1.77             | 1.85             | 1.85             | 1.85             | 1.85             | 1.85             | 2.01             | 2.01             | 2.01             | 2.01             | 2.01             |
| 50°F<br>10°C   | TC                 |       | 32879           | 33416            | 34533            | 34730            | 36061            | 34811            | 34831            | 34944            | 34989            | 36103            | 36182            | 36228            | 36249            | 36252            | 36415            | 38788            | 38807            | 38901            | 38912            | 38964            |
|                | S/T                |       | 0.87            | 1.00             | 1.00             | 1.00             | 1.00             | 0.69             | 0.81             | 0.92             | 0.94             | 1.00             | 0.57             | 0.69             | 0.80             | 0.81             | 0.93             | 0.39             | 0.49             | 0.58             | 0.60             | 0.71             |
|                | PI                 |       | 1.95            | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             | 1.95             |
| 59°F<br>15°C   | TC                 |       | 33098           | 33895            | 35088            | 35299            | 36719            | 35118            | 35133            | 35308            | 35376            | 36762            | 36576            | 36615            | 36630            | 36632            | 36874            | 39369            | 39380            | 39457            | 39466            | 39504            |
|                | S/T                |       | 0.88            | 1.00             | 1.00             | 1.00             | 1.00             | 0.70             | 0.83             | 0.94             | 0.97             | 1.00             | 0.58             | 0.71             | 0.81             | 0.83             | 0.96             | 0.39             | 0.50             | 0.59             | 0.61             | 0.73             |
|                | PI                 |       | 2.26            | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.29             | 2.29             | 2.29             | 2.29             | 2.29             |
| 68°F<br>20°C   | TC                 |       | 33344           | 34420            | 35686            | 35911            | 37421            | 35428            | 35439            | 35716            | 35950            | 37463            | 36970            | 37000            | 37011            | 37012            | 37433            | 39920            | 39933            | 39997            | 40004            | 40033            |
|                | S/T                |       | 0.91            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.85             | 0.97             | 1.00             | 1.00             | 0.59             | 0.72             | 0.84             | 0.86             | 0.99             | 0.40             | 0.50             | 0.61             | 0.62             | 0.75             |
|                | PI                 |       | 2.56            | 2.57             | 2.58             | 2.58             | 2.60             | 2.58             | 2.58             | 2.58             | 2.58             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.60             | 2.63             | 2.63             | 2.63             | 2.63             | 2.63             |
| 77°F<br>25°C   | TC                 |       | 33522           | 34806            | 36156            | 36396            | 38004            | 35701            | 35718            | 36129            | 36439            | 38049            | 37331            | 37374            | 37391            | 37435            | 38083            | 40432            | 40468            | 40559            | 40569            | 40613            |
|                | S/T                |       | 0.92            | 1.00             | 1.00             | 1.00             | 1.00             | 0.72             | 0.87             | 0.99             | 1.00             | 1.00             | 0.59             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                | PI                 |       | 2.88            | 2.89             | 2.91             | 2.91             | 2.92             | 2.90             | 2.90             | 2.90             | 2.91             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.95             | 2.95             | 2.95             | 2.95             | 2.95             |
| 82°F<br>27.8°C | TC                 |       | 33711           | 35141            | 36541            | 36790            | 38463            | 35937            | 35995            | 36586            | 36835            | 38507            | 37618            | 37668            | 37687            | 37746            | 38542            | 40803            | 40855            | 40957            | 40969            | 41018            |
|                | S/T                |       | 0.94            | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.87             | 1.00             | 1.00             | 1.00             | 0.60             | 0.74             | 0.86             | 0.87             | 1.00             | 0.40             | 0.51             | 0.62             | 0.63             | 0.76             |
|                | PI                 |       | 3.20            | 3.22             | 3.23             | 3.23             | 3.25             | 3.23             | 3.23             | 3.23             | 3.23             | 3.25             | 3.24             | 3.24             | 3.24             | 3.24             | 3.25             | 3.28             | 3.28             | 3.27             | 3.27             | 3.27             |
| 86°F<br>30°C   | TC                 |       | 33955           | 35528            | 36969            | 37224            | 38959            | 36198            | 36273            | 37014            | 37269            | 38990            | 37924            | 37969            | 38029            | 38064            | 39026            | 41184            | 41244            | 41340            | 41351            | 41394            |
|                | S/T                |       | 0.95            | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.88             | 1.00             | 1.00             | 1.00             | 0.60             | 0.75             | 0.86             | 0.88             | 1.00             | 0.40             | 0.51             | 0.62             | 0.64             | 0.77             |
|                | PI                 |       | 3.64            | 3.66             | 3.67             | 3.68             | 3.70             | 3.67             | 3.67             | 3.67             | 3.68             | 3.70             | 3.69             | 3.69             | 3.69             | 3.69             | 3.70             | 3.73             | 3.73             | 3.73             | 3.73             | 3.73             |
| 95°F<br>35°C   | TC                 |       | 34936           | 34998            | 35749            | 35960            | 37370            | 37170            | 37179            | 37192            | 37194            | 37446            | 38775            | 38779            | 38799            | 38802            | 38819            | 41859            | 41844            | 41848            | 41846            | 41877            |
|                | S/T                |       | 0.80            | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.84             | 0.86             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                | PI                 |       | 4.45            | 4.45             | 4.50             | 4.51             | 4.60             | 4.59             | 4.59             | 4.59             | 4.59             | 4.60             | 4.69             | 4.69             | 4.69             | 4.69             | 4.69             | 4.89             | 4.89             | 4.89             | 4.89             | 4.89             |
| 104°F<br>40°C  | TC                 |       | 32060           | 32174            | 33101            | 33296            | 34617            | 3                |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 56 – 37MURA + 45MULA Cooling Performance (54K - 60D) (Continued)

| Airflow<br>CFM | Out-<br>door<br>DB | ID WB | 60.8°F (16.0°C)  |                  |                  |                  |                  | 64.4°F (16.0°C)  |                  |                  |                  |                  | 67.0°F (19.4°C)  |                  |                  |                  |                  | 71.6°F (22.0°C)  |                  |                  |                  |                  |
|----------------|--------------------|-------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|                |                    |       | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C | 73.4°F<br>23.0°C | 77.0°F<br>25.0°C | 80.0°F<br>26.7°C | 80.6°F<br>27.0°C | 84.2°F<br>29.0°C |
|                |                    | ID DB |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 1047           | -13°F<br>25°C      | TC    | 40484            | 40465            | 41043            | 41213            | 42347            | 42239            | 42204            | 42177            | 42174            | 42139            | 43502            | 43447            | 43406            | 43400            | 43358            | 45886            | 45874            | 45779            | 45762            | 45665            |
|                |                    | S/T   | 0.80             | 0.91             | 1.00             | 1.00             | 1.00             | 0.65             | 0.75             | 0.85             | 0.86             | 0.97             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.47             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 1.98             | 1.98             | 1.98             | 1.98             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.97             | 1.98             | 1.98             | 1.98             | 1.98             | 1.98             |
|                | -4°F<br>20°C       | TC    | 43598            | 43578            | 44200            | 44383            | 45604            | 45488            | 45451            | 45422            | 45418            | 45380            | 46848            | 46789            | 46745            | 46738            | 46694            | 49416            | 49402            | 49301            | 49282            | 49178            |
|                |                    | S/T   | 0.80             | 0.92             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.85             | 0.87             | 0.98             | 0.55             | 0.65             | 0.74             | 0.76             | 0.86             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.05             | 2.05             | 2.05             | 2.05             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.04             | 2.05             | 2.05             | 2.05             | 2.05             | 2.05             |
|                | 0°F<br>17.8°C      | TC    | 45045            | 45018            | 45854            | 46045            | 47309            | 46977            | 46925            | 46889            | 46883            | 47354            | 48358            | 48289            | 48229            | 48222            | 48199            | 50958            | 50946            | 50942            | 50949            | 50982            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.86             | 0.88             | 1.00             | 0.55             | 0.66             | 0.75             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 5°F<br>15°C        | TC    | 46336            | 46496            | 47559            | 47778            | 49250            | 48510            | 48522            | 48525            | 48575            | 49299            | 50061            | 50074            | 50084            | 50085            | 50152            | 52997            | 52981            | 53009            | 53014            | 53038            |
|                |                    | S/T   | 0.82             | 0.94             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.87             | 0.88             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.09             | 2.09             | 2.09             | 2.09             | 2.10             | 2.09             | 2.10             | 2.10             | 2.10             | 2.10             | 2.11             | 2.11             | 2.11             | 2.11             | 2.11             | 2.16             | 2.15             | 2.16             | 2.16             | 2.16             |
|                | 14°F<br>10°C       | TC    | 46106            | 46082            | 47023            | 47244            | 48709            | 48395            | 48352            | 48319            | 48314            | 48766            | 50053            | 49990            | 49939            | 49931            | 49881            | 53222            | 53205            | 53103            | 53085            | 52972            |
|                |                    | S/T   | 0.81             | 0.93             | 1.00             | 1.00             | 1.00             | 0.65             | 0.76             | 0.86             | 0.87             | 1.00             | 0.55             | 0.66             | 0.75             | 0.76             | 0.87             | 0.39             | 0.48             | 0.56             | 0.57             | 0.67             |
|                |                    | PI    | 2.09             | 2.09             | 2.09             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.08             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 17°F<br>10°C       | TC    | 45921            | 46071            | 47136            | 47365            | 48904            | 48207            | 48227            | 48236            | 48276            | 48957            | 49852            | 49871            | 49891            | 49893            | 49955            | 53019            | 53004            | 52996            | 53006            | 53051            |
|                |                    | S/T   | 0.82             | 0.93             | 1.00             | 1.00             | 1.00             | 0.66             | 0.77             | 0.87             | 0.88             | 1.00             | 0.55             | 0.66             | 0.76             | 0.77             | 0.87             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.07             | 2.09             | 2.09             | 2.09             | 2.09             | 2.09             |
|                | 23°F<br>5°C        | TC    | 44980            | 45173            | 46342            | 46570            | 48105            | 47257            | 47272            | 47277            | 47339            | 48157            | 48887            | 48904            | 48917            | 48918            | 48997            | 51982            | 51966            | 52003            | 52010            | 52040            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.89             | 0.39             | 0.48             | 0.57             | 0.59             | 0.69             |
|                |                    | PI    | 2.24             | 2.24             | 2.25             | 2.25             | 2.26             | 2.25             | 2.25             | 2.25             | 2.26             | 2.26             | 2.27             | 2.27             | 2.27             | 2.27             | 2.27             | 2.31             | 2.31             | 2.31             | 2.31             | 2.31             |
|                | 35°F<br>1.7°C      | TC    | 43510            | 43511            | 43767            | 43889            | 45305            | 45544            | 45542            | 45546            | 45546            | 45667            | 46969            | 46966            | 46969            | 46970            | 46974            | 49614            | 49602            | 49600            | 49598            | 49602            |
|                |                    | S/T   | 0.78             | 0.88             | 0.97             | 0.99             | 1.00             | 0.63             | 0.73             | 0.82             | 0.83             | 0.93             | 0.54             | 0.63             | 0.72             | 0.73             | 0.83             | 0.39             | 0.46             | 0.54             | 0.56             | 0.65             |
|                |                    | PI    | 2.42             | 2.42             | 2.43             | 2.44             | 2.54             | 2.56             | 2.56             | 2.56             | 2.56             | 2.57             | 2.67             | 2.67             | 2.67             | 2.67             | 2.67             | 2.91             | 2.91             | 2.91             | 2.90             | 2.91             |
|                | 41°F<br>5°C        | TC    | 43434            | 43435            | 43781            | 44085            | 45388            | 45454            | 45453            | 45456            | 45456            | 45615            | 46872            | 46869            | 46872            | 46873            | 46876            | 49502            | 49490            | 49487            | 49485            | 49490            |
|                |                    | S/T   | 0.78             | 0.89             | 0.98             | 1.00             | 1.00             | 0.64             | 0.74             | 0.83             | 0.84             | 0.94             | 0.54             | 0.64             | 0.72             | 0.74             | 0.84             | 0.39             | 0.47             | 0.55             | 0.56             | 0.66             |
|                |                    | PI    | 2.27             | 2.27             | 2.29             | 2.31             | 2.40             | 2.41             | 2.41             | 2.41             | 2.41             | 2.42             | 2.52             | 2.52             | 2.52             | 2.52             | 2.52             | 2.74             | 2.74             | 2.74             | 2.74             | 2.74             |
|                | 47°F<br>8.3°C      | TC    | 43357            | 43386            | 43967            | 44164            | 45471            | 45367            | 45366            | 45367            | 45366            | 45576            | 46776            | 46772            | 46775            | 46775            | 46775            | 49395            | 49383            | 49378            | 49376            | 49381            |
|                |                    | S/T   | 0.79             | 0.90             | 1.00             | 1.00             | 1.00             | 0.64             | 0.75             | 0.84             | 0.85             | 0.96             | 0.54             | 0.65             | 0.73             | 0.75             | 0.85             | 0.39             | 0.47             | 0.55             | 0.57             | 0.67             |
|                |                    | PI    | 2.12             | 2.12             | 2.16             | 2.18             | 2.27             | 2.26             | 2.26             | 2.26             | 2.26             | 2.28             | 2.37             | 2.37             | 2.37             | 2.37             | 2.37             | 2.58             | 2.58             | 2.58             | 2.58             | 2.58             |
|                | 50°F<br>10°C       | TC    | 42685            | 43860            | 45340            | 45603            | 47371            | 45095            | 45120            | 45432            | 45575            | 47416            | 46854            | 46915            | 46940            | 46942            | 47394            | 50083            | 50216            | 50345            | 50360            | 50423            |
|                |                    | S/T   | 0.90             | 1.00             | 1.00             | 1.00             | 1.00             | 0.71             | 0.85             | 0.96             | 0.99             | 1.00             | 0.59             | 0.72             | 0.83             | 0.85             | 0.99             | 0.40             | 0.50             | 0.60             | 0.62             | 0.74             |
|                |                    | PI    | 2.51             | 2.51             | 2.51             | 2.51             | 2.50             | 2.51             | 2.51             | 2.51             | 2.51             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             | 2.50             |
|                | 59°F<br>15°C       | TC    | 42996            | 44504            | 46084            | 46364            | 48251            | 45492            | 45554            | 46071            | 46414            | 48299            | 47368            | 47416            | 47433            | 47502            | 48338            | 50864            | 50966            | 51068            | 51079            | 51122            |
|                |                    | S/T   | 0.92             | 1.00             | 1.00             | 1.00             | 1.00             | 0.73             | 0.86             | 1.00             | 1.00             | 1.00             | 0.60             | 0.73             | 0.85             | 0.86             | 1.00             | 0.40             | 0.51             | 0.61             | 0.63             | 0.76             |
|                |                    | PI    | 2.89             | 2.90             | 2.91             | 2.91             | 2.92             | 2.91             | 2.91             | 2.91             | 2.91             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.92             | 2.94             | 2.94             | 2.93             | 2.93             | 2.93             |
|                | 68°F<br>20°C       | TC    | 43284            | 45131            | 46805            | 47103            | 49101            | 45823            | 45926            | 46856            | 47154            | 49150            | 47804            | 47840            | 47926            | 47968            | 49190            | 51509            | 51604            | 51685            | 51693            | 51720            |
|                |                    | S/T   | 0.95             | 1.00             | 1.00             | 1.00             | 1.00             | 0.74             | 0.89             | 1.00             | 1.00             | 1.00             | 0.61             | 0.75             | 0.87             | 0.89             | 1.00             | 0.40             | 0.51             | 0.63             | 0.65             | 0.78             |
|                |                    | PI    | 3.28             | 3.30             | 3.32             | 3.32             | 3.34             | 3.31             | 3.31             | 3.32             | 3.32             | 3.34             | 3.33             | 3.33             | 3.33             | 3.33             | 3.34             | 3.38             | 3.37             | 3.37             | 3.37             | 3.37             |
|                | 77°F<br>25°C       | TC    | 43533            | 45629            | 47415            | 47731            | 49864            | 46151            | 46297            | 47467            | 47784            | 49914            | 48241            | 48295            | 48419            | 48473            | 49956            | 52103            | 52261            | 52381            | 52394            | 52443            |
|                |                    | S/T   | 0.97             | 1.00             | 1.00             | 1.00             | 1.00             | 0.75             | 0.90             | 1.00             | 1.00             | 1.00             | 0.61             | 0.76             | 0.88             | 0.90             | 1.00             | 0.40             | 0.52             | 0.63             | 0.65             | 0.79             |
|                |                    | PI    | 3.69             | 3.71             | 3.73             | 3.73             | 3.75             | 3.72             | 3.72             | 3.73             | 3.73             | 3.75             | 3.74             | 3.74             | 3.74             | 3.74             | 3.75             | 3.79             | 3.78             | 3.78             | 3.78             | 3.78             |
|                | 82°F<br>27.8°C     | TC    | 43814            | 46050            | 47908            | 48232            | 50441            | 46429            | 46608            | 47949            | 48286            | 50494            | 48588            | 48650            | 48801            | 48861            | 50538            | 52534            | 52732            | 52869            | 52883            | 52941            |
|                |                    | S/T   | 0.99             | 1.00             | 1.00             | 1.00             | 1.00             | 0.76             | 0.91             | 1.00             | 1.00             | 1.00             | 0.62             | 0.77             | 0.89             | 0.92             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.80             |
|                |                    | PI    | 4.11             | 4.13             | 4.15             | 4.15             | 4.17             | 4.14             | 4.14             | 4.15             | 4.15             | 4.17             | 4.16             | 4.16             | 4.16             | 4.16             | 4.17             | 4.21             | 4.20             | 4.20             | 4.20             | 4.19             |
|                | 86°F<br>30°C       | TC    | 44369            | 46584            | 48489            | 48827            | 51101            | 46791            | 47006            | 48543            | 48883            | 51154            | 49008            | 49064            | 49244            | 49315            | 51198            | 53057            | 53261            | 53388            | 53401            | 53451            |
|                |                    | S/T   | 1.00             | 1.00             | 1.00             | 1.00             | 1.00             | 0.77             | 0.93             | 1.00             | 1.00             | 1.00             | 0.62             | 0.78             | 0.91             | 0.93             | 1.00             | 0.40             | 0.52             | 0.64             | 0.66             | 0.81             |
|                |                    | PI    | 4.67             | 4.70             | 4.72             | 4.72             | 4.75             | 4.70             | 4.70             | 4.72             | 4.72             | 4.75             | 4.73             | 4.73             | 4.73             | 4.73             | 4.75             | 4.79             | 4.79             | 4.78             | 4.78             | 4.78             |
|                | 95°F<br>35°C       | TC    | 45290            | 45535            | 47006            | 47285            | 49154            | 48134            | 48162            | 48177            | 48234            | 49216            | 50199            | 50210            | 50241            | 50246            | 50329            | 54092            | 54072            | 54083            | 54098            | 54171            |
|                |                    | S/T   | 0.83             | 0.95             | 1.00             | 1.00             | 1.00             | 0.66             | 0.78             | 0.88             | 0.89             | 1.00             | 0.56             | 0.67             | 0.76             | 0.78             | 0.88             | 0.39             | 0.48             | 0.57             | 0.58             | 0.68             |
|                |                    | PI    | 5.70             | 5.72             | 5.81             | 5.82             |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |

Table 57 – 37MURA + 45MULA Heating Performance (54K -60D)

| AIRFLOW<br>(CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE |                                     |                  |                  |                    |                    |                        |                  |                  |                    |                    |
|------------------|----------------------------------------------------|-------------------------------------|------------------|------------------|--------------------|--------------------|------------------------|------------------|------------------|--------------------|--------------------|
|                  | OUTDOOR<br>DB                                      | TC: Total Heating Capacity (BTU/hr) |                  |                  |                    |                    | PI: Power Input (kW)   |                  |                  |                    |                    |
|                  |                                                    | Indoor Conditions (DB)              |                  |                  |                    |                    | Indoor Conditions (DB) |                  |                  |                    |                    |
|                  |                                                    | 60.8°F<br>(16.0°C)                  | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) | 60.8°F<br>(16.0°C)     | 68°F<br>(20.0°C) | 70°F<br>(21.1°C) | 71.6°F<br>(22.0°C) | 75.2°F<br>(24.0°C) |
| 785              | -13°F (-25.0°C)                                    | 21790                               | 21354            | 21248            | 21163              | 20972              | 3.85                   | 3.88             | 3.89             | 3.90               | 3.92               |
|                  | -4°F (-20.0°C)                                     | 28725                               | 28150            | 28010            | 27897              | 27646              | 4.53                   | 4.56             | 4.57             | 4.58               | 4.60               |
|                  | 0°F (-17.8°C)                                      | 31967                               | 31327            | 31171            | 31046              | 30767              | 4.61                   | 4.65             | 4.66             | 4.67               | 4.69               |
|                  | 5°F (-15.0°C)                                      | 36019                               | 35299            | 35122            | 34982              | 34667              | 4.72                   | 4.76             | 4.77             | 4.78               | 4.80               |
|                  | 14°F (-10.0°C)                                     | 36761                               | 36026            | 35846            | 35702              | 35381              | 4.49                   | 4.53             | 4.54             | 4.55               | 4.57               |
|                  | 17°F (-8.3°C)                                      | 37008                               | 36268            | 36087            | 35942              | 35619              | 4.42                   | 4.45             | 4.46             | 4.47               | 4.49               |
|                  | 22°F (-5.6°C)                                      | 36786                               | 36051            | 35870            | 35727              | 35405              | 4.25                   | 4.29             | 4.30             | 4.31               | 4.32               |
|                  | 27°F (-2.8°C)                                      | 36564                               | 35833            | 35654            | 35511              | 35192              | 4.09                   | 4.13             | 4.13             | 4.14               | 4.16               |
|                  | 32°F (0.0°C)                                       | 36343                               | 35616            | 35438            | 35296              | 34978              | 3.93                   | 3.96             | 3.97             | 3.98               | 3.99               |
|                  | 35°F (1.7°C)                                       | 36209                               | 35485            | 35308            | 35167              | 34850              | 3.83                   | 3.86             | 3.87             | 3.88               | 3.89               |
|                  | 37°F (2.8°C)                                       | 40230                               | 39425            | 39228            | 39071              | 38719              | 3.96                   | 3.99             | 4.00             | 4.01               | 4.03               |
|                  | 42°F (5.6°C)                                       | 50281                               | 49275            | 49029            | 48833              | 48393              | 4.28                   | 4.32             | 4.33             | 4.34               | 4.35               |
|                  | 44.6°F (7.0°C)                                     | 54301                               | 53215            | 52949            | 52737              | 52262              | 4.41                   | 4.45             | 4.46             | 4.47               | 4.48               |
|                  | 47°F (8.3°C)                                       | 60332                               | 59125            | 58829            | 58594              | 58067              | 4.61                   | 4.64             | 4.65             | 4.66               | 4.68               |
|                  | 52°F (11.1°C)                                      | 58887                               | 57709            | 57421            | 57191              | 56676              | 4.31                   | 4.34             | 4.35             | 4.36               | 4.38               |
|                  | 57F (13.9°C)                                       | 57443                               | 56294            | 56012            | 55788              | 55286              | 4.01                   | 4.04             | 4.05             | 4.06               | 4.07               |
|                  | 59°F (15.0°C)                                      | 56865                               | 55728            | 55449            | 55227              | 54730              | 3.89                   | 3.92             | 3.93             | 3.93               | 3.95               |
|                  | 62°F (16.7°C)                                      | 55998                               | 54878            | 54604            | 54385              | 53896              | 3.71                   | 3.74             | 3.75             | 3.75               | 3.77               |
|                  | 64.4°F (18.0°C)                                    | 55305                               | 54199            | 53928            | 53712              | 53229              | 3.56                   | 3.59             | 3.60             | 3.61               | 3.62               |
|                  | 69.8°F (21.0°C)                                    | 58377                               | 57210            | 56924            | 56696              | 56186              | 3.24                   | 3.27             | 3.27             | 3.28               | 3.29               |
|                  | 75.2°F (24.0°C)                                    | 52232                               | 51188            | 50932            | 50728              | 50272              | 2.92                   | 2.94             | 2.95             | 2.95               | 2.96               |
| 1047             | -13°F (-25.0°C)                                    | 29001                               | 28421            | 28279            | 28166              | 27912              | 5.48                   | 5.53             | 5.54             | 5.55               | 5.57               |
|                  | -4°F (-20.0°C)                                     | 34816                               | 34120            | 33949            | 33814              | 33509              | 5.87                   | 5.92             | 5.93             | 5.94               | 5.96               |
|                  | 0°F (-17.8°C)                                      | 36445                               | 35716            | 35537            | 35395              | 35077              | 6.06                   | 6.11             | 6.12             | 6.13               | 6.16               |
|                  | 5°F (-15.0°C)                                      | 38481                               | 37711            | 37523            | 37373              | 37036              | 6.29                   | 6.34             | 6.36             | 6.37               | 6.40               |
|                  | 14°F (-10.0°C)                                     | 41115                               | 40293            | 40091            | 39931              | 39571              | 6.28                   | 6.33             | 6.34             | 6.35               | 6.38               |
|                  | 17°F (-8.3°C)                                      | 41993                               | 41153            | 40947            | 40784              | 40417              | 6.27                   | 6.32             | 6.33             | 6.35               | 6.37               |
|                  | 22°F (-5.6°C)                                      | 41873                               | 41035            | 40830            | 40667              | 40301              | 6.07                   | 6.12             | 6.13             | 6.14               | 6.17               |
|                  | 27°F (-2.8°C)                                      | 41752                               | 40917            | 40712            | 40550              | 40185              | 5.87                   | 5.92             | 5.93             | 5.94               | 5.97               |
|                  | 32°F (0.0°C)                                       | 41631                               | 40799            | 40595            | 40432              | 40069              | 5.67                   | 5.72             | 5.73             | 5.74               | 5.77               |
|                  | 35°F (1.7°C)                                       | 41559                               | 40728            | 40524            | 40362              | 39999              | 5.55                   | 5.60             | 5.61             | 5.62               | 5.64               |
|                  | 37°F (2.8°C)                                       | 43319                               | 42452            | 42240            | 42071              | 41692              | 5.48                   | 5.53             | 5.54             | 5.55               | 5.57               |
|                  | 42°F (5.6°C)                                       | 47717                               | 46763            | 46529            | 46343              | 45926              | 5.31                   | 5.35             | 5.36             | 5.37               | 5.39               |
|                  | 44.6°F (7.0°C)                                     | 49477                               | 48487            | 48245            | 48052              | 47619              | 5.24                   | 5.28             | 5.29             | 5.30               | 5.32               |
|                  | 47°F (8.3°C)                                       | 52116                               | 51074            | 50818            | 50615              | 50160              | 5.13                   | 5.17             | 5.19             | 5.20               | 5.22               |
|                  | 52°F (11.1°C)                                      | 50910                               | 49892            | 49643            | 49444              | 48999              | 4.68                   | 4.72             | 4.73             | 4.74               | 4.75               |
|                  | 57F (13.9°C)                                       | 49705                               | 48711            | 48467            | 48273              | 47839              | 4.22                   | 4.26             | 4.27             | 4.28               | 4.29               |
|                  | 59°F (15.0°C)                                      | 49223                               | 48238            | 47997            | 47805              | 47375              | 4.04                   | 4.08             | 4.08             | 4.09               | 4.11               |
|                  | 62°F (16.7°C)                                      | 48499                               | 47529            | 47292            | 47102              | 46679              | 3.77                   | 3.80             | 3.81             | 3.82               | 3.83               |
|                  | 64.4°F (18.0°C)                                    | 47921                               | 46962            | 46727            | 46540              | 46122              | 3.55                   | 3.58             | 3.59             | 3.60               | 3.61               |
|                  | 69.8°F (21.0°C)                                    | 48778                               | 47802            | 47563            | 47373              | 46947              | 3.06                   | 3.09             | 3.09             | 3.10               | 3.11               |
|                  | 75.2°F (24.0°C)                                    | 41199                               | 40375            | 40173            | 40012              | 39652              | 2.57                   | 2.59             | 2.60             | 2.60               | 2.61               |

COIL STATIC PRESSURE DROP

| Case         | Static Pressure/Pa   | 25   | 40   | 50   | 65   | 75   | 85   | 100  | 110  | 120  | 130  | 140  | 150  | 160  | 170  | 180  |
|--------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              | Static Pressure/inch | 0.1  | 0.16 | 0.2  | 0.26 | 0.3  | 0.34 | 0.4  | 0.44 | 0.48 | 0.52 | 0.56 | 0.6  | 0.64 | 0.68 | 0.72 |
| 45MULAQ24XAX | DRY/m3/h             | 896  | 1185 | 1343 | 1587 | 1723 | 1883 | 2003 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | DRY/CFM              | 527  | 697  | 790  | 933  | 1014 | 1108 | 1178 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/m3/h             | 826  | 1088 | 1225 | 1441 | 1562 | 1713 | 1828 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/CFM              | 486  | 640  | 720  | 848  | 919  | 1008 | 1075 | /    | /    | /    | /    | /    | /    | /    | /    |
| 45MULAQ24XBX | DRY/m3/h             | 913  | 1238 | 1426 | 1703 | 1858 | 2033 | 2175 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | DRY/CFM              | 537  | 728  | 839  | 1002 | 1093 | 1196 | 1279 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/m3/h             | 843  | 1141 | 1308 | 1557 | 1697 | 1873 | 2002 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/CFM              | 496  | 671  | 769  | 916  | 998  | 1102 | 1178 | /    | /    | /    | /    | /    | /    | /    | /    |
| 45MULAQ36XAX | DRY/m3/h             | 924  | 1199 | 1339 | 1546 | 1680 | 1873 | 2161 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | DRY/CFM              | 543  | 705  | 787  | 909  | 988  | 1102 | 1271 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/m3/h             | 831  | 1086 | 1222 | 1406 | 1511 | 1713 | 1971 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/CFM              | 489  | 639  | 719  | 827  | 889  | 1008 | 1159 | /    | /    | /    | /    | /    | /    | /    | /    |
| 45MULAQ36XBX | DRY/m3/h             | 941  | 1252 | 1422 | 1662 | 1815 | 1994 | 2256 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | DRY/CFM              | 554  | 736  | 836  | 978  | 1068 | 1173 | 1327 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/m3/h             | 848  | 1139 | 1305 | 1522 | 1646 | 1834 | 2066 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/CFM              | 499  | 670  | 768  | 895  | 968  | 1079 | 1215 | /    | /    | /    | /    | /    | /    | /    | /    |
| 45MULAQ36XCX | DRY/m3/h             | 958  | 1306 | 1505 | 1778 | 1950 | 2115 | 2351 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | DRY/CFM              | 564  | 768  | 886  | 1046 | 1147 | 1244 | 1383 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/m3/h             | 865  | 1193 | 1388 | 1638 | 1781 | 1955 | 2161 | /    | /    | /    | /    | /    | /    | /    | /    |
|              | WET/CFM              | 509  | 701  | 817  | 964  | 1048 | 1150 | 1271 | /    | /    | /    | /    | /    | /    | /    | /    |
| 45MULAQ60XMX | DRY/m3/h             | 1050 | 1362 | 1536 | 1775 | 1924 | 2050 | 2335 | 2520 | 2623 | 2711 | 2798 | 2917 | 3008 | 3093 | 3190 |
|              | DRY/CFM              | 618  | 801  | 904  | 1044 | 1132 | 1206 | 1374 | 1482 | 1543 | 1595 | 1646 | 1716 | 1769 | 1819 | 1876 |
|              | WET/m3/h             | 980  | 1265 | 1418 | 1629 | 1763 | 1880 | 2050 | 2310 | 2423 | 2485 | 2548 | 2650 | 2779 | 2890 | 3005 |
|              | WET/CFM              | 576  | 744  | 834  | 958  | 1037 | 1106 | 1206 | 1359 | 1425 | 1462 | 1499 | 1559 | 1635 | 1700 | 1768 |
| 45MULAQ60XDX | DRY/m3/h             | 980  | 1280 | 1433 | 1705 | 1850 | 1985 | 2280 | 2450 | 2580 | 2652 | 2713 | 2862 | 2935 | 3012 | 3110 |
|              | DRY/CFM              | 576  | 753  | 843  | 1003 | 1088 | 1168 | 1341 | 1441 | 1518 | 1560 | 1596 | 1684 | 1726 | 1772 | 1829 |
|              | WET/m3/h             | 910  | 1238 | 1380 | 1660 | 1778 | 1855 | 2018 | 2280 | 2400 | 2430 | 2522 | 2580 | 2722 | 2840 | 2980 |
|              | WET/CFM              | 535  | 728  | 812  | 976  | 1046 | 1091 | 1187 | 1341 | 1412 | 1429 | 1484 | 1518 | 1601 | 1671 | 1753 |

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

**COOLING CAPACITIES NOTES:**

1. Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

$$\text{Leaving wb} = \text{wb corresponding to enthalpy of air leaving coil (h}_{\text{LWB}})$$

$$h_{\text{LWB}} = h_{\text{EWB}} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

Where  $h_{\text{EWB}}$  = enthalpy of air entering coil

3. SHC is based on 80°F db temperature of air entering the evaporator coil.

Below 80°F db, subtract (Correction Factor x CFM) from SHC.

Above 80°F db, add (Correction Factor x CFM) to SHC.

4. Direct interpolation is permissible. Do not extrapolate.

5. Fan motor heat has not been deducted.

6. All data points are based on use of thermostatic expansion valve (TXV) device.

7. These coils can be used in any properly designed system using Puron Advance (R-454B) Refrigerant.

8. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.

**NOTE:**