

37MTRAQ

Outdoor Unit Multi-Zone Ductless System Sizes 18K to 48K



Product Data



Fig. 1 — Sizes 18K - 36K



Fig. 2 — Size 48K

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

INDUSTRY LEADING FEATURES / BENEFITS

A competitively priced and creative solution to design problems.

The 37MTRAQ ductless inverter driven multi-zone system provides individual comfort control for up to 6 separate zones. Match two, three, four, five, or even six space-saving High Wall fan coils with one outdoor heat pump. The indoor fan coils are connected to the outdoor unit by refrigerant tubing and wires.

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

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

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

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Inverter Technology

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

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

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

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

Individual Room Comfort

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

Low Sound Levels

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

When sound ordinances and proximity to neighbors demand quiet operation, the 37MTRAQ unit is the right choice. With the inverter technology, these units run at lower speeds, most of the time resulting in reduced sound levels.

Inverter Technology – Enhanced Economical Operation

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

Easy-To-Use Controls

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

Secure Operation

If security is an issue, outdoor and indoor units are connected only by refrigerant piping and wiring to prevent intruders from crawling through ductwork or wall openings. Since the 37MTRAQ can be installed close to an outside wall, coils are protected from vandals and severe weather.

Fast Installation

This compact ductless system is simple to install. A mounting bracket is included with the indoor units and only wires and piping need to run between the indoor and outdoor units. These units are fast and easy to install ensuring minimal disruption to customers in homes or the workplace. This makes 37MTRAQ systems the equipment of choice for retrofit applications.

Simple Servicing and Maintenance

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

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

Built-in Reliability

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

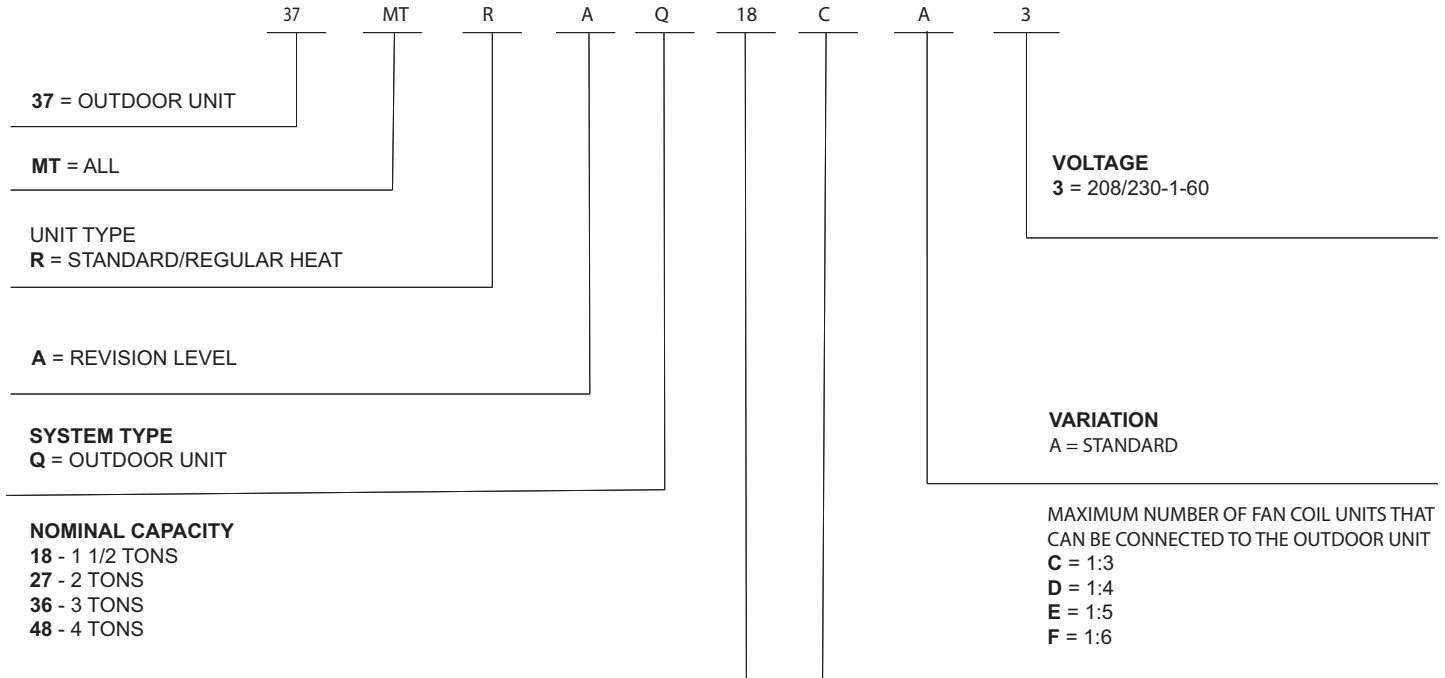
Inverter systems provide additional reliability due to the soft start. This refers to the ability of the inverter to start the compressor motor using reduced voltage and reduced current. This feature is beneficial from an electrical standpoint (eliminates current spikes) as well as an overall reliability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

Agency Listings

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

MODEL NUMBER NOMENCLATURE

OUTDOOR UNIT



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.



STANDARD FEATURES AND ACCESSORIES

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

Legend

S - Standard

A - Accessory

ACCESSORIES

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

Outdoor Units

Crankcase Heater

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

Base pan Heater

The base pan heater is standard on all unit sizes.

DIMENSIONS

Table 1 — Dimensions and Weights

| System Size | | 18K | 27K | 36K | 48K |
|-------------|------|-------------|-------------|-------------|-------------|
| | | (208/230 V) | (208/230 V) | (208/230 V) | (208/230 V) |
| Height (H) | inch | 26.5 | 31.89 | 31.89 | 52.48 |
| | mm | 673 | 810 | 810 | 1333 |
| Width (W) | inch | 35.04 | 37.24 | 37.24 | 37.48 |
| | mm | 890 | 946 | 946 | 952 |
| Depth (D) | inch | 13.46 | 16.14 | 16.14 | 16.34 |
| | mm | 342 | 410 | 410 | 415 |
| Weight -Net | lbs. | 100.53 | 138.89 | 168.87 | 222 |
| | kg | 45.6 | 63 | 76.6 | 100.7 |

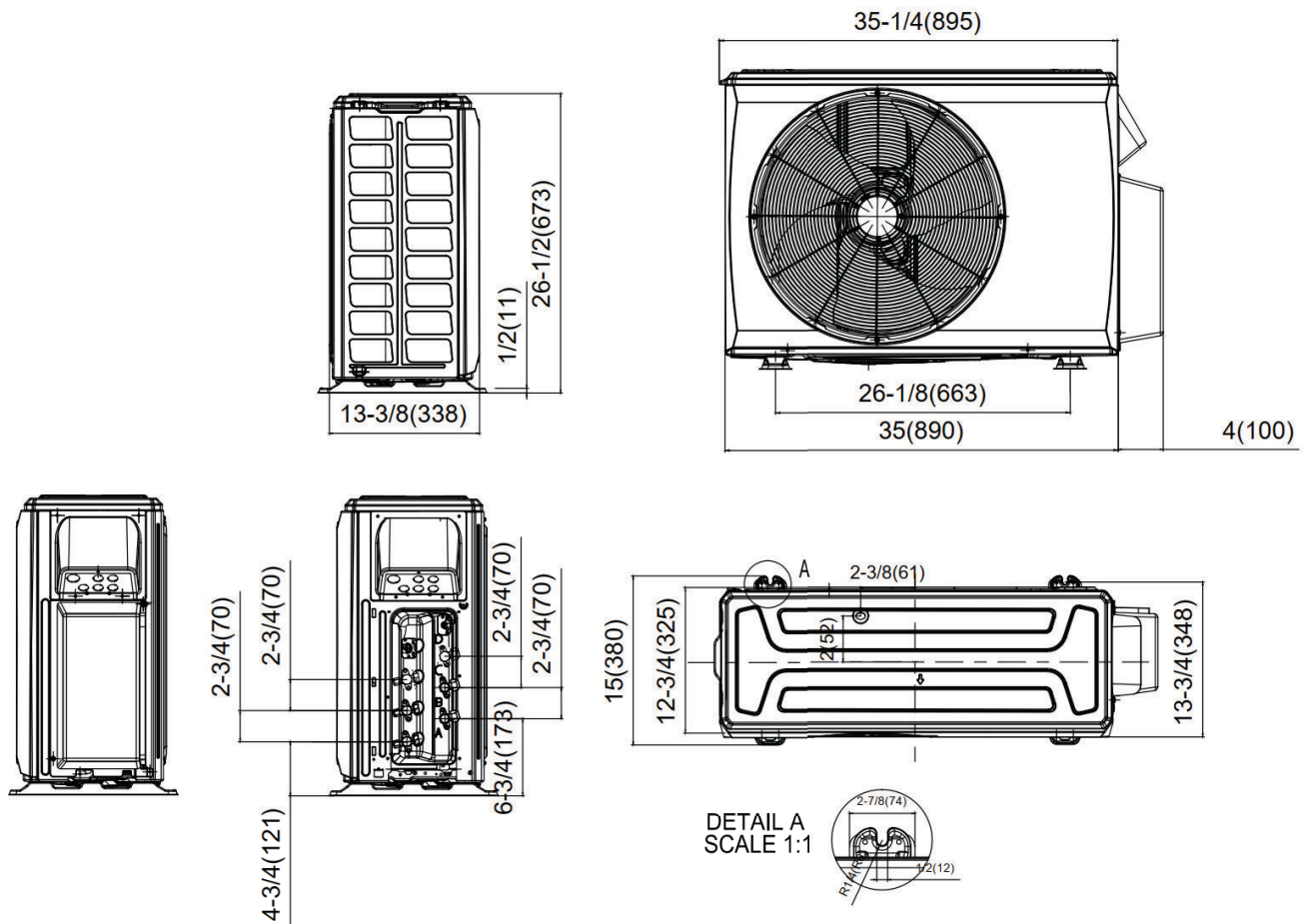


Fig. 3 —Dimensions - Size 18K

DIMENSIONS (CONT)

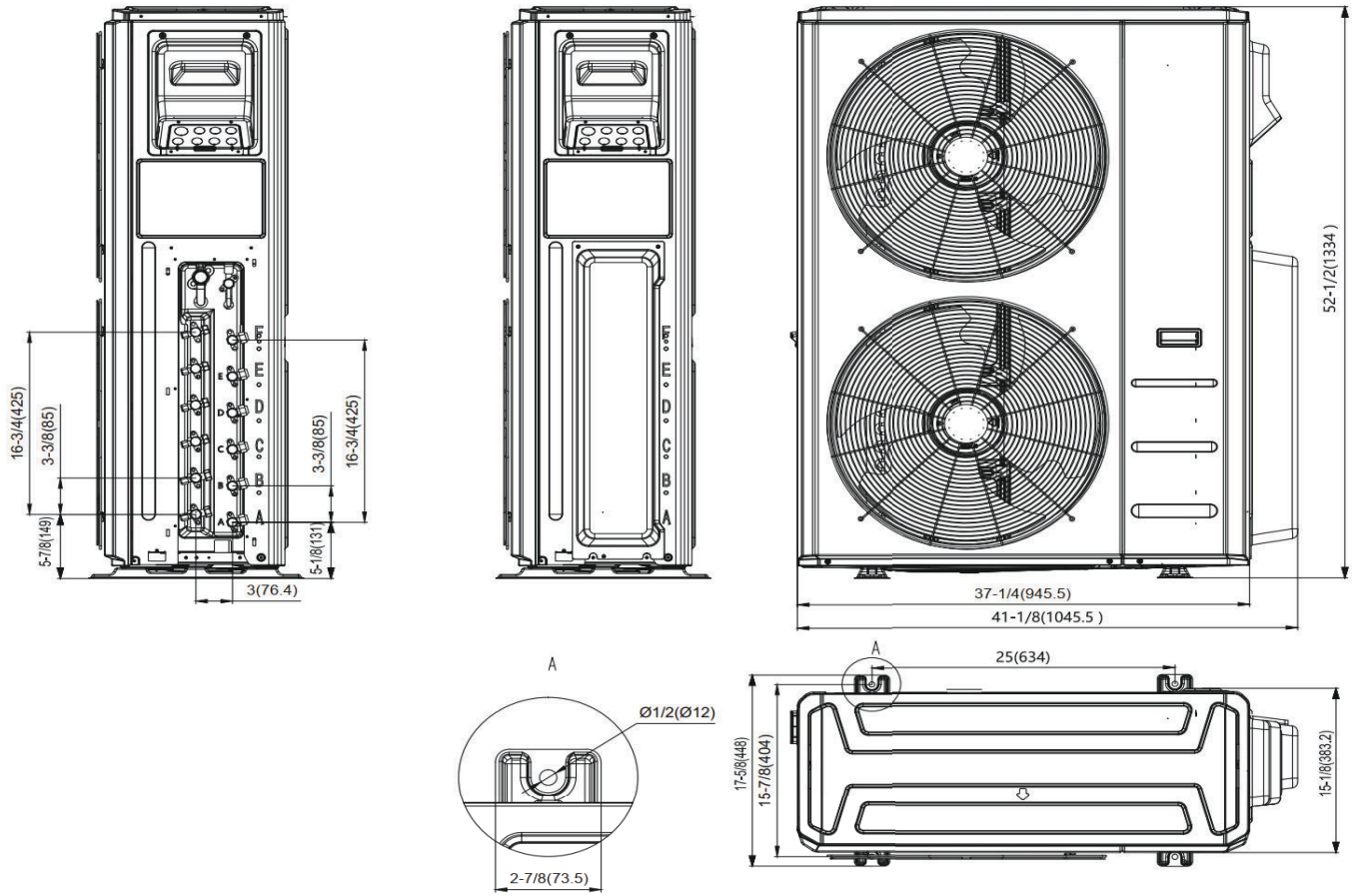


Fig. 6 — Outdoor Dimensions Size 48K

CLEARANCES

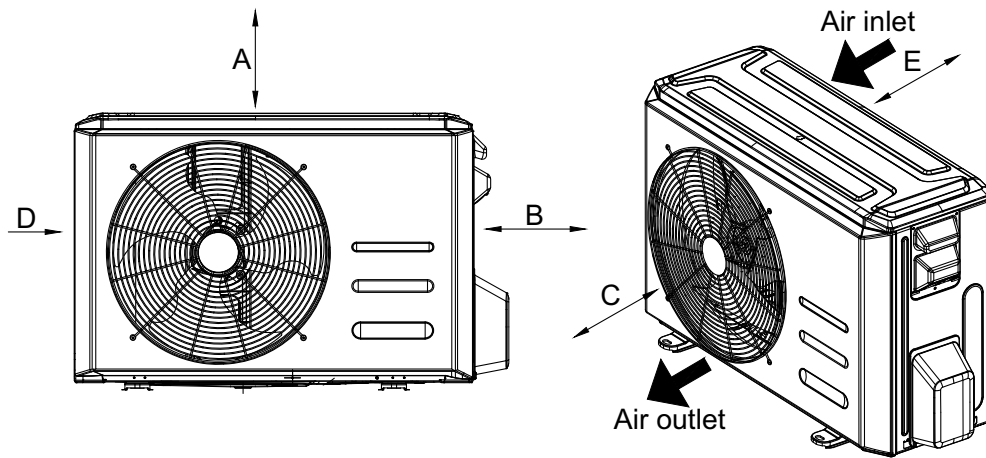


Fig. 7 — Clearances

| UNIT | MINIMUM VALUE in. (mm) |
|------|------------------------|
| A | 20 (500) |
| B | 14 (350) |
| C | 20 (500) |
| D | 4 (100) |
| E | 4 (100) |

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

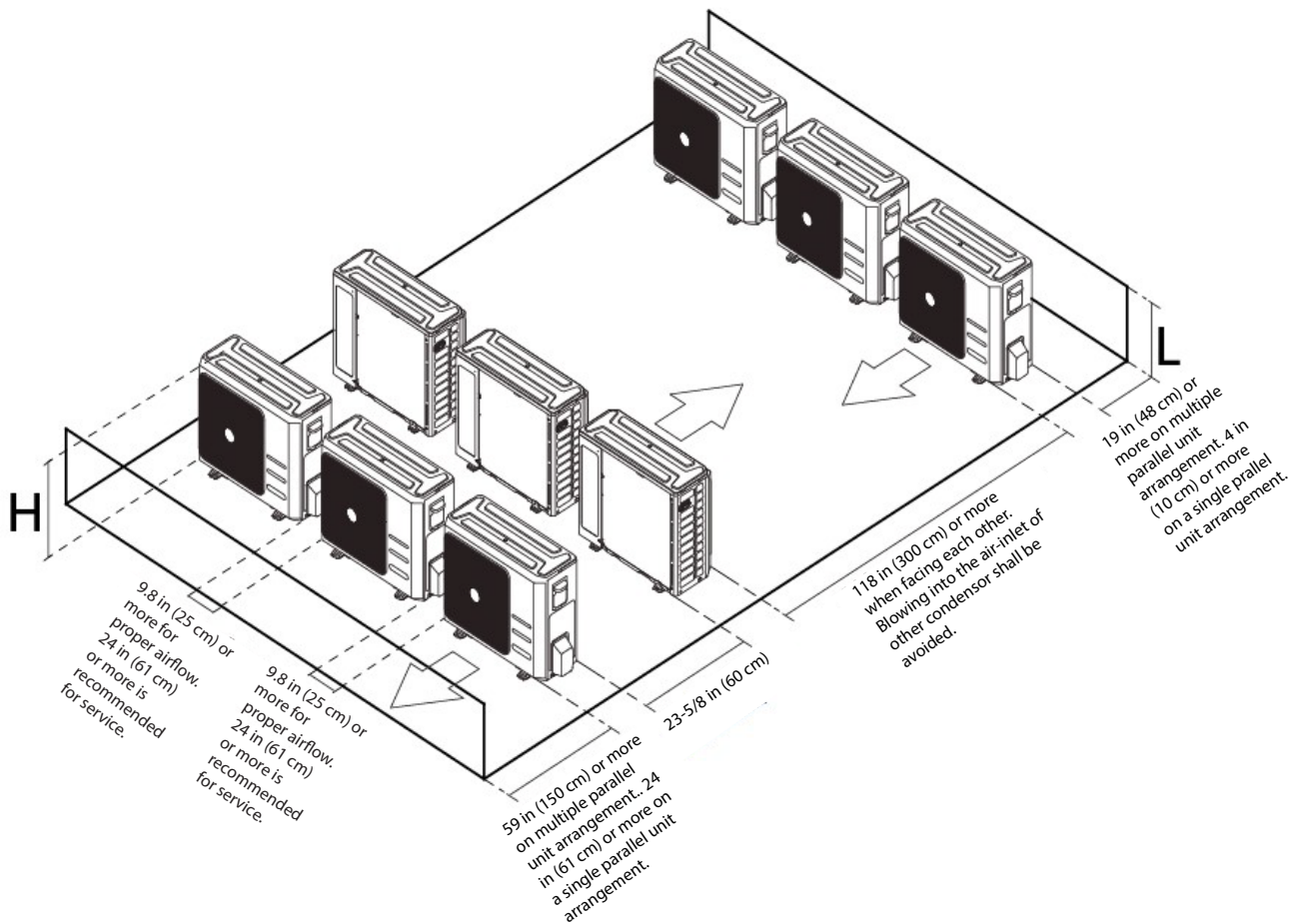


Fig. 8 — Clearances for multiple units

SPECIFICATIONS

Table 2: Specifications

| OUTDOOR MODEL | | 37MTRAQ18CA3 | 37MTRAQ27DA3 | 37MTRAQ36EA3 | 37MTRAQ48FA3 | | |
|--|------------------|--------------|------------------------------|------------------------------|------------------------------|------------------------------|-------------|
| POWER SUPPLY | | V;Ph;Hz | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ | |
| COMPRESSOR SPECIFICATIONS | Model | | KTN150D30UFZA | KTM240D46UKT2 | KTF310D43UMT | KTQ420D1UMU | |
| | Type | | Twin-ROTARY | ROTARY | ROTARY | ROTARY | |
| | Brand | | GMCC | GMCC | GMCC | GMCC | |
| | Capacity | W | | 4730 | 7600 | 10010 | 13700 |
| | | Btu/h | | 16139 | 25931 | 34154 | 46744 |
| | Input | W | | 1250 | 2045 | 2765 | 3700 |
| | Rated current | A | | 3.1 | 4.15 | 5.38 | 7.02 |
| | Refrigerant Oil | | | ESTER OIL | ESTER OIL | ESTER OIL | ESTER OIL |
| | Oil Type | | | VG74 | VG74 | VG74 | VG74 |
| Oil Charge | fl. Oz | | 15.22 | 20.97 | 33.82 | 47.35 | |
| OUTDOOR FAN 1# SPECIFICATIONS | Material | - | Acrylonitrile Styrene +20%GF | Acrylonitrile Styrene +20%GF | Acrylonitrile Styrene +20%GF | Acrylonitrile Styrene +20%GF | |
| | Type | - | ZL-535*133*12-3KFN | ZL-560*139*12-3KN | ZL-560*139*12-3KN | ZL-554*148*12-3KFN | |
| | Diameter | inch | | 21.1 | 22.0 | 22.0 | 21.8 |
| | | mm | | 535 | 560 | 560 | 554 |
| | Height | inch | | 5.2 | 5.5 | 5.5 | 5.8 |
| mm | | | 133 | 139 | 139 | 148 | |
| OUTDOOR FAN 2# SPECIFICATIONS | Material | - | N/A | N/A | N/A | Acrylonitrile Styrene +20%GF | |
| | Type | - | N/A | N/A | N/A | ZL-554*148*12-3KFN | |
| | Diameter | inch | | N/A | N/A | N/A | 21.8 |
| | | mm | | N/A | N/A | N/A | 554 |
| | Height | inch | | N/A | N/A | N/A | 5.8 |
| mm | | | N/A | N/A | N/A | 148 | |
| OUTDOOR MOTOR 1# SPECIFICATIONS | Model | - | ZKFN-80-10-1L | ZKFN-120-8-9 | ZKFN-120-8-9 | ZKFN-85-10-1L | |
| | Type | - | DC | DC | DC | DC | |
| | Input | W | | 78.6 | 80.0 | 107.0 | 92 |
| | Max. input | W | | 239.0 | 176 | 176 | 167 |
| | Output | W | | 59 | 60 | 80.3 | 69 |
| | FLA | A | | 1.0 | 1.2 | 1.3 | 2.5 |
| | Rated HP | HP | | 0.08 | 0.08 | 0.11 | 0.09 |
| | Range of current | Amps | | 0.33~1.85 | 0.79~1.67 | 0.79~1.67 | 0.77~1.44 |
| | Rated current | Amps | | 0.71 | 1.03 | 1.21 | 1.00 |
| | Speed | rev/min | | 750/600/500 | 800/700/650 | 900/750/600 | 800/700/650 |
| | Rated RPM | rev/min | | 750 | 800 | 900 | 800 |
| | Insulation class | - | | B | B | B | B |
| | Safe class | - | | IP24 | IPX4 | IPX4 | IP44 |

Table 2: Specifications (Continued)

| OUTDOOR MODEL | | | 37MTRAQ18CA3 | 37MTRAQ27DA3 | 37MTRAQ36EA3 | 37MTRAQ48FA3 |
|---|-------------------------------|-----------------|-----------------------------------|-----------------------------------|---------------------------|---------------------------|
| OUTDOOR MOTOR 2# SPECIFICATIONS | Model | - | N/A | N/A | N/A | ZKFN-85-10-1L |
| | Type | - | N/A | N/A | N/A | DC |
| | Input | W | N/A | N/A | N/A | 92 |
| | Max. input | W | N/A | N/A | N/A | 167 |
| | Output | W | N/A | N/A | N/A | 69 |
| | FLA | A | N/A | N/A | N/A | 2.5 |
| | Rated HP | HP | N/A | N/A | N/A | 0.09 |
| | Range of current | Amps | N/A | N/A | N/A | 0.77~1.44 |
| | Rated current | Amps | N/A | N/A | N/A | 1.00 |
| | Speed | rev/min | N/A | N/A | N/A | 800/700/650 |
| | Rated RPM | rev/min | N/A | N/A | N/A | 800 |
| | Insulation class | - | N/A | N/A | N/A | B |
| | Safe class | - | N/A | N/A | N/A | IP44 |
| OUTDOOR REFRIGERANT COIL 1# SPECIFICATIONS | Number of rows | Rows | 2 | 2 | 2.5 | 2 |
| | Tube outside dia. | inch | 0.276 | 0.276 | 0.276 | 0.276 |
| | | mm | Φ7 | Φ7 | Φ7 | Φ7 |
| | Nominal Tube Wall | mm | 0.00945 (0.24) | 0.00945 (0.24) | 0.00945 (0.24) | 0.00945 (0.24) |
| | Tube Enhancement | (Yes/No) | Yes | Yes | Yes | Yes |
| | Tube Material | | Copper | Copper | Copper | Copper |
| | Tube pitch (a)x row pitch (b) | inch | 0.83× 0.87 | 0.83× 0.53 | 0.83× 0.87 | 0.83× 0.87 |
| | | mm | 21x22 | 21x13.37 | 21x22 | 21x22 |
| | Fin Spacing | FPI | 20 | 19 | 20 | 22 |
| | | mm | 1.3 | 1.4 | 1.3 | 1.2 |
| | Fin type | | Plain fin | Louvered | Plain fin | Plain fin |
| | Fin Material | | Gold hydrophilic aluminum | Gold hydrophilic aluminum | Gold hydrophilic aluminum | Gold hydrophilic aluminum |
| | Coil length x height x width | inch | 35.43x23.98x0.87+34.06x23.98x0.87 | 39.57x29.76x0.53+38.78x29.76x0.53 | 39.17x30x2.6 | 38.39x24.8x1.73 |
| | | mm | 900*609*22+865*609*22 | 1005x756x13.37+985x756x13.37 | 995x762x66 | 975x630x44 |
| | Face area | ft ² | 5.90 | 8.18 | 8.16 | 6.61 |
| Number of circuits | # | 6 | 6 | 12 | 10 | |
| High Burst Pressure | Psi (MPa) | 550(3.79) | 550(3.79) | 550(3.79) | 550(3.79) | |
| Low Burst Pressure | Psi (MPa) | 340(2.34) | 340(2.34) | 340(2.34) | 340(2.34) | |

Table 2: Specifications (Continued)

| OUTDOOR MODEL | | | 37MTRAQ18CA3 | 37MTRAQ27DA3 | 37MTRAQ36EA3 | 37MTRAQ48FA3 |
|---|---|-----------------|-------------------|------------------------------------|------------------------------------|------------------------------------|
| OUTDOOR REFRIGERANT COIL 2# SPECIFICATIONS | Number of rows | Rows | N/A | N/A | N/A | 2 |
| | Tube outside dia. | inch | N/A | N/A | N/A | 0.276 |
| | | mm | N/A | N/A | N/A | Φ7 |
| | Nominal Tube Wall | mm | N/A | N/A | N/A | 0.00945 (0.24) |
| | Tube Enhancement | (Yes/No) | N/A | N/A | N/A | Yes |
| | Tube Material | | N/A | N/A | N/A | Copper |
| | Tube pitch (a)x row pitch (b) | inch | N/A | N/A | N/A | 0.83× 0.87 |
| | | mm | N/A | N/A | N/A | 21x22 |
| | Fin Spacing | FPI | N/A | N/A | N/A | 22 |
| | | mm | N/A | N/A | N/A | 1.2 |
| | Fin type | | N/A | N/A | N/A | Plain fin |
| | Fin Material | | N/A | N/A | N/A | Gold hydrophilic aluminum |
| | Coil length x height x width | inch | N/A | N/A | N/A | 38.39x24.8x1.73 |
| | | mm | N/A | N/A | N/A | 975x630x44 |
| | Face area | ft ² | N/A | N/A | N/A | 6.61 |
| | Number of circuits | # | N/A | N/A | N/A | 10 |
| High Burst Pressure | Psi (MPa) | N/A | N/A | N/A | 550(3.79) | |
| Low Burst Pressure | Psi (MPa) | N/A | N/A | N/A | 340(2.34) | |
| PIPING AND REFRIGERANT INFORMATION | Refrigerant Type | Type | R454B | R454B | R454B | R454B |
| | Charge Amount | lb. (kg) | 3.86(1.75) | 5.29(2.4) | 7.54(3.42) | 9.26(4.2) |
| | Liquid Pipe (size - connection type) | In (mm) | 3x1/4in(3x6.35mm) | 4x1/4in(4x6.35mm) | 5x1/4in(5x6.35mm) | 6x1/4in(5x6.35mm) |
| | Suction Pipe (size - connection type) | In (mm) | 3x3/8in(3x9.52mm) | 3x3/8in+1x1/2in(3x9.52mm+1x12.7mm) | 3x3/8in+2x1/2in(3x9.52mm+2x12.7mm) | 4x3/8in+2x1/2in(4x9.52mm+2x12.7mm) |
| | Min. Piping Length per each indoor unit | ft. (m) | 9.8 (3) | 9.8 (3) | 9.8 (3) | 9.8 (3) |
| | Standard Piping Length per each indoor unit | ft. (m) | 24.6 (7.5) | 24.6 (7.5) | 24.6 (7.5) | 24.6 (7.5) |
| | Max. outdoor-indoor height difference (OU higher than IU) | ft. (m) | 49.21(15) | 49.21(15) | 49.21(15) | 49.21(15) |
| | Max. outdoor-indoor height difference (IU higher than OU) | ft. (m) | 49.21(15) | 49.21(15) | 49.21(15) | 49.21(15) |
| | Max. Piping Length with no additional refrigerant charge per System (Standard Piping length x No. of Zones) | ft. (m) | 73.8 (22.5) | 98.4(30) | 123(37.5) | 147.6(45) |
| | Additional refrigerant charge (Greater than Standard Piping Length X # of Zones) | Oz/ft (g/m) | 0.16(15) | 0.16(15) | 0.16(15) | 0.16(15) |
| | Max. Length per each indoor unit | ft. (m) | 98.4(30) | 114.8(35) | 114.8(35) | 114.8(35) |
| | Total Maximum Piping Length per system | ft. (m) | 196.9(60) | 262.5(80) | 262.5(80) | 262.5(80) |
| | Number of IDU | ft. (m) | 3 | 4 | 6 | 6 |

PERFORMANCE

| INDOOR UNIT TYPE | | | DUCTLESS | | | |
|----------------------------------|---|---------|-------------------|-------------------|-------------------|-------------------|
| OUTDOOR MODEL | | | 37MTRAQ18CA3 | 37MTRAQ27DA3 | 37MTRAQ36EA3 | 37MTRAQ48FA3 |
| POWER SUPPLY | | V;Ph;Hz | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ | 208/230V;1Ph;60HZ |
| PERFORMANCE DATA | Cooling Rated Capacity (DOE A2 - 95°F) | Btu/h | 18000 | 26400 | 36000 | 48000 |
| | Cooling Capacity Range | Btu/h | 5400~21200 | 7200~28600 | 9000~36200 | 12000~54000 |
| | SEER2 | Btu/h.W | 18.5 | 18.5 | 18.8 | 18.7 |
| | EER2 (DOE A2 - 95°F) | Btu/h.W | 11.7 | 10.5 | 9.5 | 10 |
| | Heating Rated Capacity (DOE H12 - 47°F) | Btu/h | 18000 | 26400 | 36000 | 48000 |
| | Heating Capacity Range | Btu/h | 5700~20600 | 8400~30000 | 10000~40000 | 13000~54000 |
| | COP (DOE H12 - 47°F) | W/W | 3.4 | 3.3 | 2.7 | 3.2 |
| | HSPF2 IV | Btu/h.W | 9.2 | 8.5 | 8.5 | 9.5 |
| | HSPF2 V | Btu/h.W | 7.5 | 7.0 | 6.6 | 7.3 |
| | Cooling Rated Capacity (DOE B2 - 82°F) | Btu/h | 18800 | 29400 | 38000 | 52500 |
| | EER (DOE B2 - 82°F) | Btu/h.W | 15.0 | 12.5 | 11.5 | 12 |
| | Heating Rated Capacity (DOE H32 - 17°F) | Btu/h | 15000 | 16000 | 25600 | 37000 |
| | COP (DOE H32 - 17°F) | W/W | 2.4 | 2.4 | 2.2 | 2.3 |
| | Heating Maximum Capacity (17°F) | Btu/h | 15000 | 16000 | 26000 | 37000 |
| | Heating Rated Capacity (DOE H42 - 5°F) | Btu/h | 15000 | 18600 | 25200 | 36000 |
| | COP (DOE H42 - 5°F) | W/W | 2.0 | 2.0 | 1.9 | 1.85 |
| | Heating Maximum Capacity (5°F) | Btu/h | 15000 | 18600 | 25200 | 36000 |
| | Cooling Capacity at 109 F (43°C) | Btu/h | 14800 | 21000 | 23000 | 45000 |
| | Heating Capacity at -4F (-20°C) | Btu/h | 11300 | 10500 | 17700 | 28000 |
| | Heating Capacity at -13F (-25°C) | Btu/h | 8700 | 7800 | 14500 | 16000 |
| Heating Capacity at -22F (-30°C) | Btu/h | / | / | / | / | |

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

COOLING PERFORMANCE

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COOLING PERFORMANCE 18K

Table 3 – 18K Cooling Performance

| AIRFLOW (CFM) | OUTDOOR DB °F(°C) | ID WB °F(°C) ID DB °F °C | 60.8°F(16.0°C) | | | | | 64.4°F(18.0°C) | | | | | 67°F(19.4°C) | | | | | 71.6°F(22.0°C) | | | | |
|------------------|----------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C |
| | | | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T |
| 262 | -22°F(-3.0°C) | TC | 10773 | 10788 | 10799 | 10800 | 10814 | 11422 | 11436 | 11447 | 11449 | 11463 | 12105 | 12120 | 12134 | 12136 | 12150 | 12834 | 12848 | 12862 | 12864 | 12880 |
| | | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.46 | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.49 | 0.49 | 0.55 |
| | | PI | 0.79 | 0.79 | 0.80 | 0.80 | 0.80 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 |
| | -13°F(-2.5°C) | TC | 11602 | 11617 | 11630 | 11630 | 11646 | 12301 | 12315 | 12328 | 12330 | 12345 | 13036 | 13053 | 13067 | 13070 | 13084 | 13821 | 13836 | 13851 | 13853 | 13871 |
| | | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.38 | 0.43 | 0.43 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 |
| | | PI | 0.85 | 0.86 | 0.86 | 0.86 | 0.86 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 |
| | -4°F(-20.0°C) | TC | 11970 | 11986 | 11999 | 12000 | 12016 | 12691 | 12706 | 12719 | 12721 | 12737 | 13450 | 13467 | 13482 | 13485 | 13500 | 14260 | 14276 | 14291 | 14293 | 14311 |
| | | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.38 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 |
| | | PI | 0.88 | 0.88 | 0.88 | 0.88 | 0.89 | 0.93 | 0.94 | 0.94 | 0.94 | 0.94 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 |
| | 0°F(-17.8°C) | TC | 12430 | 12447 | 12461 | 12461 | 12478 | 13180 | 13195 | 13208 | 13211 | 13226 | 13967 | 13985 | 14001 | 14003 | 14019 | 14808 | 14825 | 14841 | 14843 | 14861 |
| | | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 |
| | | PI | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| | 5°F(-15.0°C) | TC | 12391 | 12408 | 12421 | 12422 | 12439 | 13138 | 13154 | 13167 | 13169 | 13185 | 13923 | 13941 | 13957 | 13959 | 13975 | 14762 | 14778 | 14794 | 14796 | 14815 |
| | | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 |
| | | PI | 0.91 | 0.91 | 0.92 | 0.92 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| | 14°F(-1.0°C) | TC | 12378 | 12395 | 12408 | 12409 | 12426 | 13124 | 13140 | 13153 | 13155 | 13171 | 13908 | 13926 | 13942 | 13944 | 13960 | 14746 | 14762 | 14778 | 14781 | 14799 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.44 | 0.49 | 0.49 | 0.56 |
| | | PI | 0.91 | 0.91 | 0.91 | 0.92 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 |
| | 17°F(-8.3°C) | TC | 12513 | 12530 | 12543 | 12544 | 12561 | 13267 | 13283 | 13296 | 13298 | 13314 | 14060 | 14078 | 14094 | 14096 | 14112 | 14907 | 14923 | 14939 | 14942 | 14960 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.96 | 0.96 | 0.96 | 0.96 | 0.97 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 |
| | 23°F(-5.0°C) | TC | 12782 | 12799 | 12813 | 12814 | 12831 | 13553 | 13569 | 13582 | 13585 | 13601 | 14362 | 14381 | 14397 | 14400 | 14416 | 15228 | 15244 | 15261 | 15263 | 15282 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 |
| 35°F(1.7°C) | TC | 12858 | 12875 | 12889 | 12889 | 12907 | 13633 | 13649 | 13662 | 13665 | 13681 | 14447 | 14466 | 14482 | 14485 | 14501 | 15317 | 15334 | 15351 | 15353 | 15372 | |
| | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.45 | 0.45 | 0.51 | 0.35 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | |
| | PI | 0.96 | 0.96 | 0.96 | 0.96 | 0.97 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | |
| 41°F(5.0°C) | TC | 12933 | 12950 | 12964 | 12965 | 12982 | 13712 | 13729 | 13742 | 13745 | 13761 | 14532 | 14551 | 14567 | 14569 | 14586 | 15407 | 15424 | 15441 | 15443 | 15462 | |
| | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.34 | 0.39 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | |
| | PI | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.15 | 1.16 | 1.16 | 1.16 | 1.16 | 1.22 | 1.23 | 1.23 | 1.23 | 1.23 | |
| 47°F(8.3°C) | TC | 13123 | 13140 | 13154 | 13155 | 13173 | 13913 | 13930 | 13944 | 13946 | 13963 | 14745 | 14764 | 14780 | 14783 | 14799 | 15633 | 15650 | 15667 | 15669 | 15689 | |
| | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.58 | |
| | PI | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.15 | 1.15 | 1.15 | 1.15 | 1.16 | 1.22 | 1.22 | 1.22 | 1.22 | 1.23 | |
| 50°F(10.0°C) | TC | 13691 | 13709 | 13724 | 13725 | 13743 | 14516 | 14533 | 14548 | 14550 | 14568 | 15383 | 15403 | 15420 | 15423 | 15440 | 16310 | 16328 | 16346 | 16348 | 16368 | |
| | S/T | 0.32 | 0.37 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | |
| | PI | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.21 | 1.22 | 1.22 | 1.22 | 1.22 | |
| 59°F(15.0°C) | TC | 14259 | 14278 | 14294 | 14294 | 14314 | 15119 | 15136 | 15151 | 15154 | 15172 | 16022 | 16043 | 16061 | 16064 | 16081 | 16987 | 17006 | 17024 | 17027 | 17048 | |
| | S/T | 0.33 | 0.38 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | |
| | PI | 1.01 | 1.01 | 1.02 | 1.02 | 1.02 | 1.07 | 1.08 | 1.08 | 1.08 | 1.08 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | |
| 68°F(20.0°C) | TC | 14828 | 14848 | 14864 | 14864 | 14884 | 15721 | 15740 | 15755 | 15759 | 15777 | 16660 | 16682 | 16701 | 16704 | 16722 | 17664 | 17684 | 17703 | 17706 | 17728 | |
| | S/T | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | |
| | PI | 1.01 | 1.01 | 1.01 | 1.01 | 1.01 | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.13 | 1.13 | 1.13 | 1.13 | 1.14 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | |
| 77°F(25.0°C) | TC | 14634 | 14653 | 14669 | 14670 | 14689 | 15515 | 15534 | 15549 | 15552 | 15571 | 16442 | 16464 | 16482 | 16485 | 16504 | 17433 | 17452 | 17471 | 17474 | 17496 | |
| | S/T | 0.34 | 0.39 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | |
| | PI | 1.02 | 1.02 | 1.02 | 1.02 | 1.03 | 1.08 | 1.08 | 1.09 | 1.09 | 1.09 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | |

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

Table 3 – 18K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|---------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 262 | 82°F(27.8°C) | TC | 13835 | 13854 | 13868 | 13869 | 13888 | 14669 | 14686 | 14701 | 14703 | 14721 | 15545 | 15565 | 15583 | 15585 | 15603 | 16482 | 16500 | 16518 | 16520 | 16541 |
| | | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 |
| | | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 |
| | 86°F(30.0°C) | TC | 12038 | 12054 | 12067 | 12068 | 12084 | 12763 | 12779 | 12791 | 12794 | 12809 | 13526 | 13544 | 13559 | 13561 | 13576 | 14341 | 14357 | 14372 | 14374 | 14392 |
| | | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 |
| | | PI | 1.13 | 1.13 | 1.13 | 1.13 | 1.14 | 1.20 | 1.20 | 1.20 | 1.20 | 1.20 | 1.27 | 1.27 | 1.27 | 1.27 | 1.28 | 1.35 | 1.35 | 1.35 | 1.35 | 1.35 |
| | 95°F(35.0°C) | TC | 9721 | 9734 | 9744 | 9745 | 9758 | 10306 | 10319 | 10329 | 10331 | 10343 | 10922 | 10936 | 10948 | 10951 | 10963 | 11580 | 11593 | 11605 | 11607 | 11622 |
| | | S/T | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 |
| | | PI | 0.98 | 0.98 | 0.99 | 0.99 | 0.99 | 1.04 | 1.04 | 1.04 | 1.04 | 1.05 | 1.10 | 1.11 | 1.11 | 1.11 | 1.11 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 |
| | 104°F(40.0°C) | TC | 8330 | 8341 | 8350 | 8351 | 8362 | 8832 | 8843 | 8851 | 8853 | 8864 | 9360 | 9372 | 9382 | 9384 | 9395 | 9924 | 9935 | 9945 | 9947 | 9959 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.57 | 0.58 | 0.66 |
| | | PI | 0.89 | 0.89 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | 1.00 | 1.01 | 1.01 | 1.01 | 1.01 | 1.06 | 1.07 | 1.07 | 1.07 | 1.07 |
| | 110°F(43.0°C) | TC | 7512 | 7522 | 7531 | 7531 | 7541 | 7965 | 7975 | 7982 | 7984 | 7993 | 8441 | 8452 | 8461 | 8463 | 8472 | 8950 | 8959 | 8969 | 8970 | 8982 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 0.80 | 0.81 | 0.81 | 0.81 | 0.81 | 0.85 | 0.85 | 0.86 | 0.86 | 0.86 | 0.90 | 0.91 | 0.91 | 0.91 | 0.91 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 |
| | 115°F(46.0°C) | TC | 6422 | 6431 | 6438 | 6438 | 6447 | 6809 | 6817 | 6824 | 6825 | 6833 | 7216 | 7225 | 7233 | 7235 | 7243 | 7651 | 7659 | 7667 | 7669 | 7678 |
| | | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 |
| | | PI | 0.69 | 0.69 | 0.69 | 0.69 | 0.69 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.77 | 0.77 | 0.77 | 0.77 | 0.77 | 0.82 | 0.82 | 0.82 | 0.82 | 0.82 |
| | 122°F(50.0°C) | TC | 12513 | 12530 | 12543 | 12544 | 12561 | 13267 | 13283 | 13296 | 13299 | 13314 | 14060 | 14078 | 14094 | 14096 | 14112 | 14907 | 14923 | 14939 | 14942 | 14960 |
| | | S/T | 0.36 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 |
| | | PI | 0.92 | 0.92 | 0.92 | 0.92 | 0.93 | 0.98 | 0.98 | 0.98 | 0.98 | 0.98 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 |

Table 3 – 18K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 432 | -22°F(-30.0°C) | TC | 13476 | 13494 | 13508 | 13509 | 13527 | 14288 | 14305 | 14319 | 14322 | 14339 | 15141 | 15161 | 15178 | 15181 | 15198 | 16054 | 16071 | 16088 | 16091 | 16111 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 |
| | | PI | 0.99 | 0.99 | 0.99 | 1.00 | 1.00 | 1.05 | 1.05 | 1.05 | 1.05 | 1.06 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.18 | 1.18 | 1.19 | 1.19 | 1.19 |
| | -13°F(-25.0°C) | TC | 13903 | 13922 | 13937 | 13938 | 13956 | 14741 | 14759 | 14773 | 14776 | 14794 | 15622 | 15642 | 15660 | 15663 | 15680 | 16563 | 16581 | 16599 | 16602 | 16622 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 |
| | | PI | 1.02 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.15 | 1.15 | 1.15 | 1.15 | 1.15 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 |
| | -4°F(-20.0°C) | TC | 14438 | 14457 | 14473 | 14474 | 14493 | 15308 | 15326 | 15341 | 15344 | 15363 | 16223 | 16244 | 16262 | 16265 | 16283 | 17200 | 17219 | 17238 | 17240 | 17262 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 |
| | | PI | 1.06 | 1.06 | 1.07 | 1.07 | 1.07 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.19 | 1.20 | 1.20 | 1.20 | 1.20 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 |
| | 0°F(-17.8°C) | TC | 14393 | 14412 | 14427 | 14428 | 14448 | 15260 | 15278 | 15293 | 15296 | 15314 | 16172 | 16193 | 16211 | 16214 | 16232 | 17146 | 17165 | 17183 | 17186 | 17207 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 |
| | | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.07 | 1.12 | 1.13 | 1.13 | 1.13 | 1.13 | 1.19 | 1.19 | 1.20 | 1.20 | 1.20 | 1.26 | 1.27 | 1.27 | 1.27 | 1.27 |
| | 5°F(-15.0°C) | TC | 14377 | 14397 | 14412 | 14413 | 14432 | 15244 | 15262 | 15277 | 15280 | 15298 | 16155 | 16176 | 16194 | 16197 | 16215 | 17128 | 17147 | 17165 | 17168 | 17189 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.57 | 0.57 | 0.66 |
| | | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.06 | 1.12 | 1.13 | 1.13 | 1.13 | 1.13 | 1.19 | 1.19 | 1.19 | 1.19 | 1.20 | 1.26 | 1.26 | 1.27 | 1.27 | 1.27 |
| | 14°F(-10.0°C) | TC | 14534 | 14553 | 14569 | 14570 | 14589 | 15410 | 15428 | 15443 | 15446 | 15465 | 16330 | 16352 | 16370 | 16373 | 16391 | 17314 | 17333 | 17352 | 17355 | 17376 |
| | | S/T | 0.36 | 0.43 | 0.48 | 0.48 | 0.55 | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.05 | 1.06 | 1.06 | 1.06 | 1.06 | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.18 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 |
| | 17°F(-8.3°C) | TC | 14847 | 14867 | 14883 | 14883 | 14903 | 15741 | 15760 | 15776 | 15779 | 15798 | 16682 | 16704 | 16722 | 16725 | 16744 | 17687 | 17706 | 17726 | 17728 | 17750 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.04 | 1.04 | 1.04 | 1.04 | 1.05 | 1.10 | 1.11 | 1.11 | 1.11 | 1.11 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 |
| | 23°F(-5.0°C) | TC | 14934 | 14954 | 14971 | 14971 | 14991 | 15834 | 15853 | 15869 | 15872 | 15891 | 16780 | 16802 | 16821 | 16824 | 16843 | 17791 | 17811 | 17830 | 17833 | 17855 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.12 | 1.12 | 1.12 | 1.12 | 1.12 | 1.18 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.33 | 1.33 | 1.33 | 1.33 | 1.34 |
| 35°F(1.7°C) | TC | 15022 | 15042 | 15058 | 15059 | 15079 | 15927 | 15946 | 15962 | 15965 | 15984 | 16879 | 16901 | 16920 | 16923 | 16942 | 17896 | 17915 | 17935 | 17937 | 17960 | |
| | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | |
| | PI | 1.19 | 1.19 | 1.20 | 1.20 | 1.20 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | 1.34 | 1.34 | 1.34 | 1.34 | 1.35 | 1.42 | 1.42 | 1.42 | 1.42 | 1.43 | |
| 41°F(5.0°C) | TC | 15242 | 15262 | 15279 | 15280 | 15300 | 16161 | 16180 | 16196 | 16199 | 16218 | 17126 | 17148 | 17167 | 17171 | 17190 | 18158 | 18178 | 18197 | 18200 | 18223 | |
| | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | |
| | PI | 1.19 | 1.19 | 1.19 | 1.19 | 1.20 | 1.26 | 1.26 | 1.27 | 1.27 | 1.27 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | |
| 47°F(8.3°C) | TC | 15902 | 15924 | 15941 | 15941 | 15963 | 16860 | 16880 | 16897 | 16900 | 16921 | 17868 | 17891 | 17911 | 17914 | 17934 | 18944 | 18965 | 18986 | 18989 | 19012 | |
| | S/T | 0.37 | 0.44 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | |
| | PI | 1.18 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.33 | 1.33 | 1.33 | 1.33 | 1.34 | 1.41 | 1.41 | 1.41 | 1.41 | 1.42 | |
| 50°F(10.0°C) | TC | 16562 | 16585 | 16602 | 16603 | 16626 | 17560 | 17581 | 17599 | 17602 | 17623 | 18610 | 18634 | 18655 | 18658 | 18679 | 19731 | 19752 | 19774 | 19777 | 19801 | |
| | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.61 | 0.69 | |
| | PI | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.32 | 1.32 | 1.33 | 1.33 | 1.33 | 1.40 | 1.40 | 1.41 | 1.41 | 1.41 | |
| 59°F(15.0°C) | TC | 17222 | 17246 | 17264 | 17265 | 17288 | 18260 | 18282 | 18300 | 18304 | 18325 | 19351 | 19376 | 19398 | 19402 | 19423 | 20517 | 20540 | 20562 | 20565 | 20591 | |
| | S/T | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | |
| | PI | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.31 | 1.32 | 1.32 | 1.32 | 1.32 | 1.39 | 1.40 | 1.40 | 1.40 | 1.40 | |
| 68°F(20.0°C) | TC | 16997 | 17020 | 17038 | 17039 | 17062 | 18021 | 18043 | 18061 | 18064 | 18086 | 19098 | 19123 | 19144 | 19148 | 19169 | 20249 | 20271 | 20293 | 20296 | 20321 | |
| | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | |
| | PI | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.26 | 1.33 | 1.33 | 1.34 | 1.34 | 1.34 | 1.41 | 1.42 | 1.42 | 1.42 | 1.42 | |
| 77°F(25.0°C) | TC | 16069 | 16091 | 16108 | 16109 | 16131 | 17038 | 17058 | 17075 | 17078 | 17099 | 18056 | 18079 | 18099 | 18103 | 18123 | 19144 | 19164 | 19185 | 19188 | 19212 | |
| | S/T | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | |
| | PI | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.47 | |
| 82°F(27.8°C) | TC | 13982 | 14001 | 14016 | 14017 | 14036 | 14825 | 14842 | 14857 | 14860 | 14878 | 15711 | 15731 | 15749 | 15751 | 15769 | 16657 | 16675 | 16693 | 16696 | 16717 | |
| | S/T | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | |
| | PI | 1.31 | 1.32 | 1.32 | 1.32 | 1.32 | 1.39 | 1.40 | 1.40 | 1.40 | 1.40 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.57 | 1.57 | 1.57 | 1.57 | 1.57 | |
| 86°F(30.0°C) | TC | 11291 | 11306 | 11318 | 11318 | 11334 | 11971 | 11985 | 11997 | 11999 | 12014 | 12686 | 12703 | 12717 | 12719 | 12733 | 13451 | 13465 | 13480 | 13482 | 13499 | |
| | S/T | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | |
| | PI | 1.14 | 1.14 | 1.14 | 1.14 | 1.15 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | |

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

Table 3 – 18K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 432 | 95°F(35.0°C) | TC | 9676 | 9689 | 9699 | 9699 | 9712 | 10259 | 10271 | 10281 | 10283 | 10295 | 10872 | 10886 | 10898 | 10900 | 10912 | 11527 | 11539 | 11552 | 11553 | 11568 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 |
| | | PI | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.10 | 1.17 | 1.17 | 1.17 | 1.17 | 1.17 | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 |
| | 104°F(40.0°C) | TC | 8726 | 8737 | 8747 | 8747 | 8759 | 9252 | 9263 | 9272 | 9274 | 9285 | 9804 | 9817 | 9828 | 9830 | 9841 | 10395 | 10406 | 10418 | 10419 | 10432 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.59 | 0.68 | 0.68 | 0.77 | |
| | | PI | 0.93 | 0.94 | 0.94 | 0.94 | 0.94 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | 1.11 | 1.11 | 1.12 | 1.12 | 1.12 | |
| | 110°F(43.0°C) | TC | 7459 | 7469 | 7477 | 7478 | 7488 | 7909 | 7918 | 7926 | 7928 | 7937 | 8381 | 8392 | 8402 | 8403 | 8413 | 8886 | 8896 | 8906 | 8907 | 8918 | |
| | | S/T | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | |
| | | PI | 0.80 | 0.80 | 0.80 | 0.80 | 0.80 | 0.85 | 0.85 | 0.85 | 0.85 | 0.85 | 0.90 | 0.90 | 0.90 | 0.90 | 0.90 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | |
| | 115°F(46.0°C) | TC | 14534 | 14554 | 14569 | 14570 | 14590 | 15410 | 15428 | 15443 | 15446 | 15465 | 16331 | 16352 | 16370 | 16373 | 16391 | 17314 | 17333 | 17352 | 17355 | 17376 | |
| | | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | |
| | | PI | 1.07 | 1.07 | 1.07 | 1.07 | 1.07 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.20 | 1.20 | 1.21 | 1.21 | 1.21 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | |
| | 122°F(50.0°C) | TC | 15652 | 15673 | 15690 | 15691 | 15712 | 16595 | 16615 | 16631 | 16635 | 16654 | 17587 | 17610 | 17629 | 17632 | 17652 | 18646 | 18667 | 18687 | 18690 | 18713 | |
| | | S/T | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | |
| | | PI | 1.15 | 1.15 | 1.16 | 1.16 | 1.16 | 1.22 | 1.22 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.37 | 1.37 | 1.38 | 1.38 | 1.38 | |
| | 533 | -22°F(-3.0°C) | TC | 16149 | 16171 | 16188 | 16189 | 16211 | 17122 | 17142 | 17159 | 17163 | 17183 | 18145 | 18169 | 18189 | 18192 | 18213 | 19238 | 19259 | 19280 | 19283 | 19307 |
| | | | S/T | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | | PI | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.27 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 |
| -13°F(-2.5°C) | | TC | 16770 | 16793 | 16811 | 16811 | 16834 | 17781 | 17802 | 17819 | 17823 | 17844 | 18843 | 18867 | 18888 | 18892 | 18913 | 19978 | 20000 | 20022 | 20025 | 20050 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | |
| | | PI | 1.24 | 1.24 | 1.24 | 1.24 | 1.24 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.48 | |
| -4°F(-20.0°C) | | TC | 16717 | 16740 | 16758 | 16758 | 16781 | 17725 | 17746 | 17763 | 17767 | 17788 | 18784 | 18808 | 18829 | 18832 | 18853 | 19915 | 19937 | 19959 | 19962 | 19987 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | | PI | 1.23 | 1.23 | 1.24 | 1.24 | 1.24 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.38 | 1.39 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | |
| 0°F(-17.8°C) | | TC | 16700 | 16722 | 16740 | 16741 | 16763 | 17706 | 17727 | 17744 | 17748 | 17769 | 18764 | 18788 | 18809 | 18813 | 18834 | 19894 | 19916 | 19938 | 19941 | 19966 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | | PI | 1.23 | 1.23 | 1.23 | 1.23 | 1.24 | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.38 | 1.39 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | |
| 5°F(-15.0°C) | | TC | 16881 | 16904 | 16922 | 16923 | 16946 | 17899 | 17920 | 17938 | 17941 | 17962 | 18968 | 18993 | 19014 | 19017 | 19039 | 20111 | 20133 | 20155 | 20158 | 20183 | |
| | | S/T | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | | PI | 1.22 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | |
| 14°F(-1.0°C) | | TC | 17245 | 17268 | 17286 | 17287 | 17311 | 18284 | 18306 | 18324 | 18327 | 18349 | 19376 | 19401 | 19423 | 19427 | 19448 | 20544 | 20566 | 20588 | 20592 | 20617 | |
| | | S/T | 0.42 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.59 | 0.67 | 0.67 | 0.77 | |
| | | PI | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.28 | 1.28 | 1.28 | 1.29 | 1.29 | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | |
| 17°F(-8.3°C) | TC | 17346 | 17370 | 17388 | 17389 | 17413 | 18392 | 18414 | 18432 | 18435 | 18457 | 19491 | 19516 | 19538 | 19541 | 19563 | 20665 | 20687 | 20710 | 20713 | 20739 | | |
| | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.59 | 0.68 | 0.68 | 0.77 | | |
| | PI | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | | |
| 23°F(-5.0°C) | TC | 17448 | 17472 | 17490 | 17491 | 17515 | 18500 | 18522 | 18540 | 18543 | 18565 | 19605 | 19630 | 19652 | 19656 | 19678 | 20786 | 20809 | 20831 | 20835 | 20861 | | |
| | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | | |
| | PI | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 | 1.65 | 1.65 | 1.65 | 1.65 | 1.66 | | |
| 35°F(1.7°C) | TC | 17704 | 17728 | 17747 | 17747 | 17771 | 18771 | 18793 | 18811 | 18815 | 18837 | 19892 | 19918 | 19940 | 19944 | 19966 | 21091 | 21114 | 21137 | 21140 | 21166 | | |
| | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | | |
| | PI | 1.38 | 1.38 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.55 | 1.56 | 1.56 | 1.56 | 1.56 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | | |
| 41°F(5.0°C) | TC | 18471 | 18495 | 18515 | 18516 | 18541 | 19584 | 19607 | 19626 | 19630 | 19653 | 20754 | 20781 | 20804 | 20808 | 20831 | 22004 | 22028 | 22052 | 22055 | 22083 | | |
| | S/T | 0.43 | 0.51 | 0.57 | 0.57 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | | |
| | PI | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.54 | 1.55 | 1.55 | 1.55 | 1.55 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | | |
| 47°F(8.3°C) | TC | 19237 | 19263 | 19284 | 19285 | 19311 | 20397 | 20421 | 20441 | 20445 | 20469 | 21615 | 21643 | 21667 | 21671 | 21696 | 22918 | 22943 | 22967 | 22971 | 23000 | | |
| | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | | |
| | PI | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.45 | 1.45 | 1.45 | 1.45 | 1.45 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 | | |
| 50°F(10.0°C) | TC | 20004 | 20031 | 20053 | 20054 | 20081 | 21210 | 21235 | 21256 | 21260 | 21285 | 22477 | 22506 | 22531 | 22535 | 22560 | 23831 | 23857 | 23883 | 23887 | 23916 | | |
| | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | | |
| | PI | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | | |

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

Table 3 – 18K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 533 | 59°F(15.0°C) | TC | 19742 | 19769 | 19790 | 19791 | 19818 | 20932 | 20957 | 20978 | 20982 | 21007 | 22183 | 22211 | 22236 | 22240 | 22265 | 23519 | 23545 | 23570 | 23574 | 23603 |
| | | S/T | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 |
| | | PI | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.47 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.64 | 1.64 | 1.65 | 1.65 | 1.65 |
| | 68°F(20.0°C) | TC | 18665 | 18690 | 18710 | 18711 | 18736 | 19790 | 19813 | 19833 | 19837 | 19860 | 20972 | 20999 | 21023 | 21027 | 21050 | 22236 | 22260 | 22284 | 22287 | 22315 |
| | | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 |
| | | PI | 1.42 | 1.43 | 1.43 | 1.43 | 1.43 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 |
| | 77°F(25.0°C) | TC | 16241 | 16262 | 16280 | 16281 | 16303 | 17219 | 17240 | 17257 | 17260 | 17281 | 18248 | 18272 | 18292 | 18296 | 18316 | 19348 | 19369 | 19390 | 19393 | 19417 |
| | | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 |
| | | PI | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.82 | 1.82 | 1.82 | 1.82 | 1.83 |
| | 82°F(27.8°C) | TC | 13114 | 13132 | 13146 | 13146 | 13164 | 13904 | 13921 | 13935 | 13937 | 13954 | 14735 | 14754 | 14771 | 14773 | 14790 | 15623 | 15640 | 15657 | 15659 | 15679 |
| | | S/T | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 |
| | | PI | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | 1.49 | 1.49 | 1.49 | 1.49 | 1.50 | 1.58 | 1.58 | 1.58 | 1.58 | 1.59 |
| | 86°F(30.0°C) | TC | 11238 | 11253 | 11265 | 11266 | 11281 | 11916 | 11930 | 11941 | 11944 | 11958 | 12627 | 12644 | 12658 | 12660 | 12674 | 13388 | 13403 | 13417 | 13419 | 13436 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.78 | 0.78 | 0.88 |
| | | PI | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.28 | 1.28 | 1.28 | 1.28 | 1.28 | 1.35 | 1.36 | 1.36 | 1.36 | 1.36 | 1.44 | 1.44 | 1.44 | 1.44 | 1.44 |
| | 95°F(35.0°C) | TC | 10135 | 10149 | 10160 | 10160 | 10174 | 10746 | 10759 | 10769 | 10771 | 10784 | 11388 | 11403 | 11415 | 11417 | 11430 | 12074 | 12087 | 12100 | 12102 | 12117 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | 1.15 | 1.15 | 1.15 | 1.15 | 1.16 | 1.22 | 1.22 | 1.22 | 1.22 | 1.22 | 1.29 | 1.30 | 1.30 | 1.30 | 1.30 |
| | 104°F(40.0°C) | TC | 8664 | 8676 | 8685 | 8685 | 8697 | 9186 | 9197 | 9206 | 9208 | 9219 | 9735 | 9748 | 9759 | 9760 | 9771 | 10322 | 10333 | 10344 | 10346 | 10359 |
| | | S/T | 0.51 | 0.59 | 0.67 | 0.67 | 0.77 | 0.54 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.92 |
| | | PI | 0.93 | 0.93 | 0.93 | 0.93 | 0.93 | 0.98 | 0.98 | 0.98 | 0.98 | 0.99 | 1.04 | 1.04 | 1.04 | 1.04 | 1.04 | 1.10 | 1.10 | 1.11 | 1.11 | 1.11 |
| | 110°F(43.0°C) | TC | 16881 | 16904 | 16922 | 16923 | 16946 | 17899 | 17920 | 17938 | 17941 | 17963 | 18968 | 18993 | 19014 | 19017 | 19039 | 20111 | 20133 | 20155 | 20158 | 20183 |
| | | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 |
| | | PI | 1.24 | 1.25 | 1.25 | 1.25 | 1.25 | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.48 | 1.48 | 1.48 | 1.48 | 1.49 |
| 115°F(46.0°C) | TC | 18180 | 18204 | 18224 | 18225 | 18249 | 19276 | 19298 | 19317 | 19321 | 19344 | 20427 | 20454 | 20477 | 20480 | 20503 | 21658 | 21682 | 21705 | 21709 | 21736 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | |
| | PI | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | |
| 122°F(50.0°C) | TC | 18757 | 18782 | 18803 | 18803 | 18829 | 19888 | 19911 | 19931 | 19935 | 19958 | 21076 | 21103 | 21127 | 21131 | 21154 | 22346 | 22370 | 22394 | 22398 | 22426 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 1.38 | 1.38 | 1.38 | 1.39 | 1.39 | 1.46 | 1.47 | 1.47 | 1.47 | 1.47 | 1.55 | 1.55 | 1.56 | 1.56 | 1.56 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | |
| 638 | -22°F(-30.0°C) | TC | 19479 | 19505 | 19526 | 19527 | 19553 | 20652 | 20677 | 20697 | 20701 | 20726 | 21886 | 21915 | 21939 | 21943 | 21968 | 23205 | 23230 | 23256 | 23259 | 23288 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 1.43 | 1.44 | 1.44 | 1.44 | 1.44 | 1.52 | 1.52 | 1.52 | 1.52 | 1.53 | 1.61 | 1.61 | 1.62 | 1.62 | 1.62 | 1.71 | 1.71 | 1.71 | 1.71 | 1.72 |
| | -13°F(-25.0°C) | TC | 19417 | 19443 | 19464 | 19465 | 19491 | 20587 | 20612 | 20632 | 20636 | 20661 | 21817 | 21846 | 21870 | 21874 | 21899 | 23132 | 23157 | 23182 | 23186 | 23215 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 1.43 | 1.43 | 1.43 | 1.43 | 1.44 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 |
| | -4°F(-20.0°C) | TC | 19397 | 19423 | 19444 | 19445 | 19471 | 20566 | 20590 | 20610 | 20614 | 20639 | 21794 | 21823 | 21847 | 21851 | 21875 | 23108 | 23133 | 23158 | 23161 | 23190 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.78 | 0.78 | 0.88 |
| | | PI | 1.43 | 1.43 | 1.43 | 1.43 | 1.44 | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.70 | 1.71 | 1.71 | 1.71 | 1.71 |
| | 0°F(-17.8°C) | TC | 19608 | 19634 | 19655 | 19656 | 19683 | 20789 | 20814 | 20835 | 20839 | 20864 | 22032 | 22060 | 22085 | 22089 | 22113 | 23359 | 23384 | 23410 | 23413 | 23443 |
| | | S/T | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.58 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.42 | 1.42 | 1.43 | 1.43 | 1.43 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.69 | 1.70 | 1.70 | 1.70 | 1.70 |
| | 5°F(-15.0°C) | TC | 20030 | 20057 | 20078 | 20079 | 20106 | 21237 | 21262 | 21283 | 21287 | 21313 | 22506 | 22535 | 22560 | 22564 | 22590 | 23862 | 23888 | 23914 | 23917 | 23947 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.40 | 1.41 | 1.41 | 1.41 | 1.41 | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.67 | 1.68 | 1.68 | 1.68 | 1.68 |
| | 14°F(-10.0°C) | TC | 20148 | 20175 | 20197 | 20198 | 20225 | 21362 | 21388 | 21409 | 21413 | 21438 | 22639 | 22668 | 22693 | 22697 | 22723 | 24003 | 24029 | 24055 | 24059 | 24089 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.69 | 1.70 | 1.70 | 1.70 | 1.70 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 |
| | 17°F(-8.3°C) | TC | 20266 | 20293 | 20315 | 20316 | 20344 | 21488 | 21513 | 21534 | 21538 | 21564 | 22771 | 22801 | 22826 | 22831 | 22856 | 24143 | 24170 | 24196 | 24200 | 24230 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.85 | 0.59 | 0.69 | 0.79 | 0.79 | 0.90 |
| | | PI | 1.61 | 1.61 | 1.61 | 1.61 | 1.62 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 |

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

Table 3 – 18K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 638 | 23°F(-5.0°C) | TC | 20563 | 20591 | 20613 | 20614 | 20642 | 21802 | 21828 | 21850 | 21854 | 21880 | 23105 | 23135 | 23161 | 23165 | 23191 | 24497 | 24524 | 24550 | 24554 | 24585 | |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 |
| | | PI | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.70 | 1.71 | 1.71 | 1.71 | 1.71 | 1.71 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | 1.91 | 1.92 | 1.92 | 1.92 | 1.92 |
| | 35°F(1.7°C) | TC | 21454 | 21483 | 21506 | 21507 | 21536 | 22747 | 22774 | 22796 | 22801 | 22828 | 24106 | 24137 | 24164 | 24168 | 24195 | 25558 | 25586 | 25614 | 25618 | 25650 | |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | |
| | | PI | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.69 | 1.70 | 1.70 | 1.70 | 1.70 | 1.79 | 1.80 | 1.80 | 1.80 | 1.80 | 1.90 | 1.90 | 1.91 | 1.91 | 1.91 | |
| | 41°F(5.0°C) | TC | 22344 | 22374 | 22399 | 22400 | 22430 | 23691 | 23719 | 23742 | 23747 | 23775 | 25106 | 25139 | 25167 | 25172 | 25200 | 26619 | 26648 | 26677 | 26681 | 26714 | |
| | | S/T | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.61 | 0.72 | 0.82 | 0.82 | 0.93 | |
| | | PI | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.68 | 1.69 | 1.69 | 1.69 | 1.69 | 1.78 | 1.79 | 1.79 | 1.79 | 1.79 | 1.89 | 1.89 | 1.90 | 1.90 | 1.90 | |
| | 47°F(8.3°C) | TC | 23235 | 23266 | 23291 | 23292 | 23324 | 24635 | 24664 | 24689 | 24694 | 24723 | 26107 | 26141 | 26170 | 26175 | 26204 | 27680 | 27710 | 27740 | 27745 | 27779 | |
| | | S/T | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.94 | |
| | | PI | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.67 | 1.68 | 1.68 | 1.68 | 1.68 | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 | 1.88 | 1.88 | 1.88 | 1.88 | 1.89 | |
| | 50°F(10.0°C) | TC | 22931 | 22962 | 22986 | 22988 | 23019 | 24313 | 24342 | 24366 | 24370 | 24399 | 25765 | 25799 | 25828 | 25832 | 25861 | 27318 | 27347 | 27377 | 27382 | 27416 | |
| | | S/T | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | 0.63 | 0.74 | 0.84 | 0.84 | 0.95 | |
| | | PI | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.80 | 1.80 | 1.80 | 1.80 | 1.81 | 1.91 | 1.91 | 1.91 | 1.91 | 1.91 | |
| | 59°F(15.0°C) | TC | 21679 | 21709 | 21732 | 21733 | 21762 | 22986 | 23013 | 23036 | 23040 | 23068 | 24359 | 24391 | 24418 | 24423 | 24450 | 25827 | 25855 | 25883 | 25887 | 25919 | |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | |
| | | PI | 1.65 | 1.66 | 1.66 | 1.66 | 1.66 | 1.75 | 1.76 | 1.76 | 1.76 | 1.76 | 1.86 | 1.86 | 1.86 | 1.86 | 1.87 | 1.97 | 1.97 | 1.97 | 1.97 | 1.98 | |
| | 68°F(20.0°C) | TC | 18864 | 18889 | 18909 | 18910 | 18936 | 20000 | 20024 | 20044 | 20048 | 20072 | 21195 | 21223 | 21247 | 21250 | 21274 | 22472 | 22497 | 22521 | 22525 | 22553 | |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | |
| | | PI | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 | 1.88 | 1.88 | 1.88 | 1.88 | 1.89 | 1.99 | 1.99 | 2.00 | 2.00 | 2.00 | 2.11 | 2.11 | 2.12 | 2.12 | 2.12 | |
| | 77°F(25.0°C) | TC | 15232 | 15253 | 15269 | 15270 | 15290 | 16150 | 16169 | 16185 | 16188 | 16208 | 17115 | 17137 | 17156 | 17160 | 17179 | 18146 | 18166 | 18186 | 18189 | 18211 | |
| | | S/T | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.62 | 0.72 | 0.82 | 0.82 | 0.93 | 0.65 | 0.76 | 0.87 | 0.87 | 0.99 | |
| | | PI | 1.54 | 1.54 | 1.54 | 1.54 | 1.55 | 1.63 | 1.63 | 1.64 | 1.64 | 1.64 | 1.73 | 1.73 | 1.73 | 1.73 | 1.74 | 1.83 | 1.84 | 1.84 | 1.84 | 1.84 | |
| 82°F(27.8°C) | TC | 13053 | 13071 | 13085 | 13086 | 13103 | 13840 | 13856 | 13870 | 13873 | 13889 | 14667 | 14686 | 14702 | 14705 | 14721 | 15551 | 15568 | 15584 | 15587 | 15606 | | |
| | S/T | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | 0.68 | 0.79 | 0.90 | 0.90 | 1.00 | | |
| | PI | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.48 | 1.49 | 1.49 | 1.49 | 1.49 | 1.57 | 1.58 | 1.58 | 1.58 | 1.58 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | | |
| 86°F(30.0°C) | TC | 11772 | 11788 | 11800 | 11801 | 11817 | 12481 | 12496 | 12509 | 12511 | 12526 | 13227 | 13244 | 13259 | 13261 | 13276 | 14024 | 14039 | 14055 | 14057 | 14074 | | |
| | S/T | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 | 0.65 | 0.76 | 0.86 | 0.86 | 0.98 | 0.68 | 0.80 | 0.91 | 0.91 | 1.00 | | |
| | PI | 1.26 | 1.26 | 1.26 | 1.26 | 1.27 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.50 | 1.51 | 1.51 | 1.51 | | |
| 95°F(35.0°C) | TC | 10063 | 10077 | 10088 | 10088 | 10102 | 10670 | 10683 | 10693 | 10695 | 10708 | 11307 | 11322 | 11335 | 11337 | 11349 | 11989 | 12002 | 12015 | 12017 | 12032 | | |
| | S/T | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 | 0.66 | 0.77 | 0.88 | 0.88 | 1.00 | 0.70 | 0.82 | 0.93 | 0.93 | 1.00 | | |
| | PI | 1.08 | 1.08 | 1.08 | 1.08 | 1.08 | 1.14 | 1.14 | 1.14 | 1.14 | 1.14 | 1.21 | 1.21 | 1.21 | 1.21 | 1.21 | 1.28 | 1.28 | 1.28 | 1.28 | 1.29 | | |
| 104°F(40.0°C) | TC | 10773 | 10788 | 10799 | 10800 | 10814 | 11422 | 11436 | 11447 | 11449 | 11463 | 12105 | 12120 | 12134 | 12136 | 12150 | 12834 | 12848 | 12862 | 12864 | 12880 | | |
| | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.46 | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.49 | 0.49 | 0.55 | | |
| | PI | 0.79 | 0.79 | 0.80 | 0.80 | 0.80 | 0.84 | 0.84 | 0.84 | 0.84 | 0.84 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.95 | 0.95 | 0.95 | 0.95 | 0.95 | | |
| 110°F(43.0°C) | TC | 11602 | 11617 | 11630 | 11630 | 11646 | 12301 | 12315 | 12328 | 12330 | 12345 | 13036 | 13053 | 13067 | 13070 | 13084 | 13821 | 13836 | 13851 | 13853 | 13871 | | |
| | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.38 | 0.43 | 0.43 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | | |
| | PI | 0.85 | 0.86 | 0.86 | 0.86 | 0.86 | 0.91 | 0.91 | 0.91 | 0.91 | 0.91 | 0.96 | 0.96 | 0.96 | 0.96 | 0.96 | 1.02 | 1.02 | 1.02 | 1.02 | 1.02 | | |
| 115°F(46.0°C) | TC | 11970 | 11986 | 11999 | 12000 | 12016 | 12691 | 12706 | 12719 | 12721 | 12737 | 13450 | 13467 | 13482 | 13485 | 13500 | 14260 | 14276 | 14291 | 14293 | 14311 | | |
| | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.38 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | | |
| | PI | 0.88 | 0.88 | 0.88 | 0.88 | 0.89 | 0.93 | 0.94 | 0.94 | 0.94 | 0.94 | 0.99 | 0.99 | 0.99 | 0.99 | 0.99 | 1.05 | 1.05 | 1.05 | 1.05 | 1.05 | | |
| 122°F(50.0°C) | TC | 12430 | 12447 | 12461 | 12461 | 12478 | 13180 | 13195 | 13208 | 13211 | 13226 | 13967 | 13985 | 14001 | 14003 | 14019 | 14808 | 14825 | 14841 | 14843 | 14861 | | |
| | S/T | 0.31 | 0.36 | 0.41 | 0.41 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | | |
| | PI | 0.92 | 0.92 | 0.92 | 0.92 | 0.92 | 0.97 | 0.97 | 0.97 | 0.97 | 0.97 | 1.03 | 1.03 | 1.03 | 1.03 | 1.03 | 1.09 | 1.09 | 1.09 | 1.09 | 1.09 | | |

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

**PI: Power Input (kW)
Extrapolated Data**

LEGEND

TC - Total Net Capacity (Btu/hour)
S/T: Sensible Cooling Capacity Ratio

COOLING PERFORMANCE 27K

Table 4 – 27K Cooling Performance

| AIRFLOW (CFM) | OUTDOOR DB°F(°C) | ID WB °F(°C) ID DB °F °C | 60.8°F(16.0°C) | | | | | 64.4°F(18.0°C) | | | | | 67°F(19.4°C) | | | | | 71.6°F(22.0°C) | | | | |
|------------------|---------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C |
| | | | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T |
| 539 | -22°F(-3.0°C) | TC | 14758 | 14778 | 14794 | 14794 | 14814 | 15647 | 15666 | 15681 | 15684 | 15703 | 16582 | 16604 | 16622 | 16625 | 16644 | 17581 | 17600 | 17620 | 17622 | 17644 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.44 | 0.49 | 0.50 | 0.56 |
| | | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.07 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.19 | 1.20 | 1.20 | 1.20 | 1.20 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 |
| | -13°F(-2.5°C) | TC | 15893 | 15915 | 15932 | 15932 | 15954 | 16851 | 16871 | 16888 | 16891 | 16911 | 17858 | 17881 | 17901 | 17904 | 17924 | 18934 | 18954 | 18975 | 18978 | 19002 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 1.14 | 1.15 | 1.15 | 1.15 | 1.15 | 1.21 | 1.21 | 1.22 | 1.22 | 1.22 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.36 | 1.36 | 1.37 | 1.37 | 1.37 |
| | -4°F(-20.0°C) | TC | 16398 | 16420 | 16437 | 16438 | 16460 | 17386 | 17407 | 17424 | 17427 | 17448 | 18425 | 18449 | 18469 | 18473 | 18493 | 19535 | 19556 | 19577 | 19580 | 19605 |
| | | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.25 | 1.25 | 1.25 | 1.25 | 1.26 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 |
| | 0°F(-17.8°C) | TC | 17028 | 17051 | 17070 | 17070 | 17093 | 18055 | 18076 | 18094 | 18097 | 18119 | 19133 | 19158 | 19180 | 19183 | 19204 | 20286 | 20308 | 20330 | 20333 | 20359 |
| | | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.45 | 0.45 | 0.51 | 0.35 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.47 |
| | 5°F(-15.0°C) | TC | 17046 | 17069 | 17087 | 17088 | 17111 | 18073 | 18095 | 18113 | 18116 | 18138 | 19153 | 19178 | 19199 | 19203 | 19224 | 20307 | 20329 | 20351 | 20355 | 20380 |
| | | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.34 | 0.39 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 1.19 | 1.19 | 1.19 | 1.19 | 1.19 | 1.26 | 1.26 | 1.26 | 1.26 | 1.27 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 |
| | 14°F(-1.0°C) | TC | 17052 | 17075 | 17093 | 17094 | 17117 | 18080 | 18101 | 18119 | 18123 | 18144 | 19160 | 19185 | 19206 | 19210 | 19231 | 20314 | 20336 | 20358 | 20362 | 20387 |
| | | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.34 | 0.39 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 |
| | | PI | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.25 | 1.25 | 1.25 | 1.25 | 1.25 | 1.32 | 1.33 | 1.33 | 1.33 | 1.33 | 1.40 | 1.40 | 1.41 | 1.41 | 1.41 |
| | 17°F(-8.3°C) | TC | 17791 | 17815 | 17834 | 17835 | 17859 | 18863 | 18885 | 18904 | 18908 | 18930 | 19990 | 20016 | 20038 | 20042 | 20064 | 21194 | 21217 | 21240 | 21244 | 21270 |
| | | S/T | 0.32 | 0.37 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 |
| | | PI | 1.22 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 |
| | 23°F(-5.0°C) | TC | 19268 | 19294 | 19315 | 19316 | 19342 | 20429 | 20454 | 20474 | 20478 | 20502 | 21650 | 21678 | 21702 | 21706 | 21731 | 22954 | 22979 | 23004 | 23008 | 23037 |
| | | S/T | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 |
| | | PI | 1.32 | 1.32 | 1.32 | 1.32 | 1.32 | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.48 | 1.48 | 1.49 | 1.49 | 1.49 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 |
| 35°F(1.7°C) | TC | 18645 | 18670 | 18690 | 18691 | 18716 | 19768 | 19792 | 19811 | 19815 | 19839 | 20949 | 20977 | 21000 | 21004 | 21027 | 22212 | 22236 | 22260 | 22264 | 22291 | |
| | S/T | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | |
| | PI | 1.30 | 1.30 | 1.30 | 1.30 | 1.31 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.47 | 1.47 | 1.47 | 1.55 | 1.55 | 1.55 | 1.55 | 1.56 | |
| 41°F(5.0°C) | TC | 18021 | 18046 | 18065 | 18066 | 18090 | 19107 | 19130 | 19149 | 19153 | 19175 | 20249 | 20275 | 20298 | 20302 | 20324 | 21469 | 21492 | 21516 | 21519 | 21546 | |
| | S/T | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | |
| | PI | 1.28 | 1.28 | 1.29 | 1.29 | 1.29 | 1.36 | 1.36 | 1.36 | 1.36 | 1.37 | 1.44 | 1.44 | 1.44 | 1.45 | 1.45 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | |
| 47°F(8.3°C) | TC | 18161 | 18185 | 18205 | 18206 | 18230 | 19255 | 19278 | 19297 | 19301 | 19324 | 20406 | 20432 | 20455 | 20459 | 20482 | 21635 | 21659 | 21682 | 21686 | 21713 | |
| | S/T | 0.32 | 0.38 | 0.43 | 0.43 | 0.49 | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.49 | 0.49 | 0.55 | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | |
| | PI | 1.29 | 1.29 | 1.29 | 1.29 | 1.30 | 1.37 | 1.37 | 1.37 | 1.37 | 1.37 | 1.45 | 1.45 | 1.45 | 1.45 | 1.46 | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | |
| 50°F(10.0°C) | TC | 18580 | 18605 | 18625 | 18626 | 18651 | 19699 | 19723 | 19742 | 19746 | 19770 | 20876 | 20903 | 20927 | 20931 | 20954 | 22134 | 22158 | 22182 | 22186 | 22213 | |
| | S/T | 0.33 | 0.38 | 0.43 | 0.43 | 0.49 | 0.35 | 0.40 | 0.46 | 0.46 | 0.52 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | |
| | PI | 1.31 | 1.32 | 1.32 | 1.32 | 1.32 | 1.39 | 1.39 | 1.40 | 1.40 | 1.40 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 1.56 | 1.57 | 1.57 | 1.57 | 1.57 | |
| 59°F(15.0°C) | TC | 18999 | 19024 | 19045 | 19045 | 19071 | 20144 | 20167 | 20187 | 20191 | 20215 | 21347 | 21375 | 21399 | 21403 | 21426 | 22633 | 22658 | 22682 | 22686 | 22714 | |
| | S/T | 0.33 | 0.39 | 0.45 | 0.45 | 0.51 | 0.35 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | |
| | PI | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.50 | 1.51 | 1.51 | 1.51 | 1.59 | 1.59 | 1.60 | 1.60 | 1.60 | |
| 68°F(20.0°C) | TC | 19417 | 19444 | 19464 | 19465 | 19492 | 20588 | 20612 | 20632 | 20636 | 20661 | 21818 | 21846 | 21870 | 21874 | 21899 | 23132 | 23157 | 23183 | 23186 | 23215 | |
| | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | |
| | PI | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.62 | 1.62 | 1.62 | 1.62 | 1.63 | |
| 77°F(25.0°C) | TC | 19153 | 19179 | 19199 | 19200 | 19226 | 20307 | 20331 | 20351 | 20355 | 20379 | 21520 | 21548 | 21572 | 21576 | 21600 | 22817 | 22842 | 22867 | 22870 | 22899 | |
| | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.48 | 0.48 | 0.55 | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | |
| | PI | 1.40 | 1.40 | 1.40 | 1.40 | 1.40 | 1.48 | 1.48 | 1.48 | 1.48 | 1.49 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.66 | 1.67 | 1.67 | 1.67 | 1.67 | |

Table 4 – 27K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|---------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 539 | 82°F(27.8°C) | TC | 18314 | 18338 | 18358 | 18359 | 18384 | 19417 | 19440 | 19460 | 19463 | 19487 | 20577 | 20604 | 20627 | 20631 | 20654 | 21817 | 21841 | 21865 | 21868 | 21895 |
| | | S/T | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 |
| | | PI | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.55 | 1.55 | 1.55 | 1.55 | 1.55 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.74 | 1.74 | 1.74 | 1.74 | 1.74 |
| | 86°F(30.0°C) | TC | 16426 | 16448 | 16465 | 16466 | 16488 | 17415 | 17436 | 17453 | 17457 | 17478 | 18456 | 18480 | 18501 | 18504 | 18525 | 19568 | 19589 | 19611 | 19614 | 19638 |
| | | S/T | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 |
| | | PI | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.69 | 1.69 | 1.70 | 1.70 | 1.70 | 1.79 | 1.80 | 1.80 | 1.80 | 1.80 | 1.90 | 1.90 | 1.91 | 1.91 | 1.91 |
| | 95°F(35.0°C) | TC | 13701 | 13719 | 13734 | 13735 | 13753 | 14527 | 14544 | 14558 | 14561 | 14578 | 15394 | 15414 | 15432 | 15434 | 15452 | 16322 | 16340 | 16358 | 16360 | 16380 |
| | | S/T | 0.36 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.57 | 0.57 | 0.64 |
| | | PI | 1.49 | 1.49 | 1.49 | 1.49 | 1.49 | 1.58 | 1.58 | 1.58 | 1.58 | 1.58 | 1.67 | 1.67 | 1.68 | 1.68 | 1.68 | 1.77 | 1.77 | 1.78 | 1.78 | 1.78 |
| | 104°F(40.0°C) | TC | 12066 | 12082 | 12095 | 12096 | 12112 | 12793 | 12808 | 12821 | 12824 | 12839 | 13558 | 13575 | 13590 | 13593 | 13608 | 14374 | 14390 | 14406 | 14408 | 14426 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 |
| | | PI | 1.42 | 1.42 | 1.43 | 1.43 | 1.43 | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 1.69 | 1.70 | 1.70 | 1.70 | 1.70 |
| | 110°F(43.0°C) | TC | 9765 | 9778 | 9788 | 9789 | 9802 | 10353 | 10365 | 10376 | 10378 | 10390 | 10972 | 10986 | 10998 | 11000 | 11012 | 11633 | 11645 | 11658 | 11660 | 11674 |
| | | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 |
| | | PI | 1.31 | 1.31 | 1.31 | 1.31 | 1.31 | 1.39 | 1.39 | 1.39 | 1.39 | 1.39 | 1.47 | 1.47 | 1.47 | 1.47 | 1.47 | 1.56 | 1.56 | 1.56 | 1.56 | 1.56 |
| | 115°F(46.0°C) | TC | 6696 | 6705 | 6712 | 6712 | 6722 | 7099 | 7108 | 7115 | 7116 | 7125 | 7524 | 7533 | 7542 | 7543 | 7552 | 7977 | 7986 | 7994 | 7996 | 8005 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 |
| | | PI | 1.15 | 1.16 | 1.16 | 1.16 | 1.16 | 1.22 | 1.22 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.37 | 1.38 | 1.38 | 1.38 | 1.38 |
| | 122°F(50.0°C) | TC | 17034 | 17057 | 17075 | 17076 | 17099 | 18061 | 18082 | 18100 | 18104 | 18125 | 19140 | 19165 | 19186 | 19190 | 19211 | 20293 | 20315 | 20337 | 20340 | 20366 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 |
| | | PI | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.47 |

Table 4 – 27K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 671 | -22°F(-30.0°C) | TC | 18345 | 18369 | 18389 | 18390 | 18415 | 19450 | 19473 | 19492 | 19496 | 19519 | 20612 | 20639 | 20662 | 20666 | 20689 | 21854 | 21878 | 21902 | 21905 | 21932 |
| | | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.57 | 0.57 | 0.65 |
| | | PI | 1.32 | 1.32 | 1.32 | 1.32 | 1.33 | 1.40 | 1.40 | 1.40 | 1.40 | 1.41 | 1.48 | 1.49 | 1.49 | 1.49 | 1.49 | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 |
| | -13°F(-25.0°C) | TC | 18927 | 18952 | 18973 | 18974 | 18999 | 20068 | 20091 | 20111 | 20115 | 20139 | 21266 | 21294 | 21318 | 21322 | 21346 | 22548 | 22572 | 22597 | 22600 | 22629 |
| | | S/T | 0.36 | 0.43 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.36 | 1.36 | 1.37 | 1.37 | 1.37 | 1.44 | 1.45 | 1.45 | 1.45 | 1.45 | 1.53 | 1.53 | 1.53 | 1.53 | 1.54 | 1.62 | 1.62 | 1.63 | 1.63 | 1.63 |
| | -4°F(-20.0°C) | TC | 19655 | 19681 | 19702 | 19703 | 19730 | 20839 | 20864 | 20885 | 20889 | 20914 | 22084 | 22113 | 22138 | 22142 | 22167 | 23415 | 23440 | 23466 | 23470 | 23499 |
| | | S/T | 0.36 | 0.43 | 0.49 | 0.49 | 0.55 | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.41 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.50 | 1.50 | 1.50 | 1.51 | 1.59 | 1.59 | 1.59 | 1.59 | 1.60 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 |
| | 0°F(-17.8°C) | TC | 19675 | 19702 | 19723 | 19724 | 19750 | 20861 | 20886 | 20906 | 20911 | 20935 | 22107 | 22136 | 22161 | 22165 | 22190 | 23439 | 23465 | 23490 | 23494 | 23523 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.37 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.54 | 1.55 | 1.55 | 1.55 | 1.55 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 |
| | 5°F(-15.0°C) | TC | 19682 | 19709 | 19730 | 19731 | 19757 | 20868 | 20893 | 20914 | 20918 | 20943 | 22115 | 22144 | 22168 | 22173 | 22197 | 23448 | 23473 | 23499 | 23502 | 23531 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 |
| | | PI | 1.36 | 1.36 | 1.36 | 1.36 | 1.36 | 1.44 | 1.44 | 1.44 | 1.44 | 1.45 | 1.53 | 1.53 | 1.53 | 1.53 | 1.53 | 1.62 | 1.62 | 1.62 | 1.62 | 1.63 |
| | 14°F(-10.0°C) | TC | 20535 | 20562 | 20585 | 20586 | 20613 | 21772 | 21798 | 21820 | 21824 | 21850 | 23073 | 23103 | 23129 | 23133 | 23159 | 24463 | 24490 | 24517 | 24520 | 24551 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 |
| | | PI | 1.41 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.68 | 1.69 | 1.69 | 1.69 | 1.69 |
| | 17°F(-8.3°C) | TC | 22240 | 22270 | 22294 | 22295 | 22325 | 23580 | 23608 | 23632 | 23636 | 23664 | 24989 | 25022 | 25050 | 25054 | 25082 | 26495 | 26524 | 26553 | 26557 | 26590 |
| | | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 |
| | | PI | 1.52 | 1.52 | 1.53 | 1.53 | 1.53 | 1.61 | 1.62 | 1.62 | 1.62 | 1.62 | 1.71 | 1.71 | 1.71 | 1.71 | 1.72 | 1.81 | 1.82 | 1.82 | 1.82 | 1.82 |
| | 23°F(-5.0°C) | TC | 21521 | 21549 | 21573 | 21574 | 21603 | 22817 | 22844 | 22867 | 22872 | 22899 | 24181 | 24212 | 24239 | 24244 | 24271 | 25638 | 25665 | 25693 | 25697 | 25729 |
| | | S/T | 0.37 | 0.44 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 |
| | | PI | 1.50 | 1.50 | 1.51 | 1.51 | 1.51 | 1.59 | 1.59 | 1.60 | 1.60 | 1.60 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | 1.79 | 1.79 | 1.79 | 1.79 | 1.80 |
| 35°F(1.7°C) | TC | 20801 | 20829 | 20851 | 20852 | 20880 | 22054 | 22081 | 22102 | 22107 | 22133 | 23372 | 23402 | 23428 | 23433 | 23459 | 24780 | 24807 | 24834 | 24838 | 24869 | |
| | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.39 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | |
| | PI | 1.48 | 1.48 | 1.48 | 1.48 | 1.49 | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.66 | 1.67 | 1.67 | 1.67 | 1.67 | 1.76 | 1.77 | 1.77 | 1.77 | 1.77 | |
| 41°F(5.0°C) | TC | 20962 | 20990 | 21013 | 21014 | 21042 | 22225 | 22252 | 22274 | 22278 | 22304 | 23553 | 23584 | 23610 | 23614 | 23641 | 24972 | 24999 | 25027 | 25030 | 25062 | |
| | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | |
| | PI | 1.49 | 1.49 | 1.49 | 1.49 | 1.50 | 1.58 | 1.58 | 1.58 | 1.58 | 1.59 | 1.67 | 1.68 | 1.68 | 1.68 | 1.68 | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 | |
| 47°F(8.3°C) | TC | 21445 | 21474 | 21497 | 21498 | 21527 | 22738 | 22765 | 22787 | 22792 | 22819 | 24096 | 24128 | 24155 | 24159 | 24186 | 25548 | 25576 | 25604 | 25608 | 25640 | |
| | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | |
| | PI | 1.52 | 1.52 | 1.52 | 1.52 | 1.52 | 1.61 | 1.61 | 1.61 | 1.61 | 1.61 | 1.70 | 1.71 | 1.71 | 1.71 | 1.71 | 1.81 | 1.81 | 1.81 | 1.81 | 1.81 | |
| 50°F(10.0°C) | TC | 21929 | 21958 | 21982 | 21983 | 22013 | 23250 | 23278 | 23301 | 23306 | 23333 | 24640 | 24672 | 24699 | 24704 | 24731 | 26124 | 26152 | 26181 | 26185 | 26218 | |
| | S/T | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | |
| | PI | 1.54 | 1.54 | 1.55 | 1.55 | 1.55 | 1.64 | 1.64 | 1.64 | 1.64 | 1.64 | 1.73 | 1.74 | 1.74 | 1.74 | 1.74 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | |
| 59°F(15.0°C) | TC | 22412 | 22442 | 22467 | 22468 | 22498 | 23763 | 23791 | 23815 | 23819 | 23848 | 25183 | 25215 | 25244 | 25248 | 25276 | 26700 | 26729 | 26758 | 26762 | 26796 | |
| | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | |
| | PI | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.66 | 1.67 | 1.67 | 1.67 | 1.67 | 1.76 | 1.77 | 1.77 | 1.77 | 1.77 | 1.87 | 1.87 | 1.87 | 1.87 | 1.88 | |
| 68°F(20.0°C) | TC | 22107 | 22137 | 22161 | 22162 | 22191 | 23439 | 23467 | 23490 | 23495 | 23523 | 24840 | 24872 | 24900 | 24904 | 24932 | 26336 | 26365 | 26394 | 26398 | 26431 | |
| | S/T | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | |
| | PI | 1.61 | 1.61 | 1.62 | 1.62 | 1.62 | 1.71 | 1.71 | 1.71 | 1.71 | 1.72 | 1.81 | 1.81 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.92 | 1.93 | 1.93 | |
| 77°F(25.0°C) | TC | 21138 | 21167 | 21190 | 21191 | 21219 | 22412 | 22439 | 22461 | 22465 | 22492 | 23751 | 23782 | 23809 | 23813 | 23840 | 25182 | 25210 | 25237 | 25241 | 25273 | |
| | S/T | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | |
| | PI | 1.68 | 1.69 | 1.69 | 1.69 | 1.69 | 1.78 | 1.79 | 1.79 | 1.79 | 1.79 | 1.89 | 1.89 | 1.90 | 1.90 | 1.90 | 2.00 | 2.01 | 2.01 | 2.01 | 2.01 | |
| 82°F(27.8°C) | TC | 18959 | 18985 | 19005 | 19006 | 19031 | 20102 | 20125 | 20145 | 20149 | 20173 | 21303 | 21330 | 21354 | 21358 | 21382 | 22586 | 22611 | 22635 | 22639 | 22667 | |
| | S/T | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | |
| | PI | 1.84 | 1.84 | 1.85 | 1.85 | 1.85 | 1.95 | 1.96 | 1.96 | 1.96 | 1.96 | 2.07 | 2.07 | 2.07 | 2.08 | 2.08 | 2.19 | 2.20 | 2.20 | 2.20 | 2.20 | |
| 86°F(30.0°C) | TC | 15814 | 15835 | 15852 | 15853 | 15875 | 16767 | 16787 | 16804 | 16807 | 16827 | 17769 | 17792 | 17812 | 17815 | 17835 | 18839 | 18860 | 18880 | 18883 | 18907 | |
| | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | |
| | PI | 1.72 | 1.72 | 1.72 | 1.72 | 1.72 | 1.82 | 1.82 | 1.82 | 1.82 | 1.83 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 1.94 | 2.05 | 2.05 | 2.05 | 2.05 | |

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

Table 4 – 27K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 671 | 95°F(35.0°C) | TC | 13927 | 13946 | 13961 | 13961 | 13980 | 14766 | 14784 | 14799 | 14801 | 14819 | 15649 | 15669 | 15686 | 15689 | 15707 | 16592 | 16610 | 16628 | 16630 | 16651 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | |
| | | PI | 1.64 | 1.64 | 1.65 | 1.65 | 1.65 | 1.74 | 1.74 | 1.74 | 1.74 | 1.75 | 1.84 | 1.85 | 1.85 | 1.85 | 1.85 | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | |
| | 104°F(40.0°C) | TC | 11271 | 11286 | 11298 | 11298 | 11314 | 11950 | 11964 | 11976 | 11978 | 11992 | 12664 | 12680 | 12694 | 12697 | 12711 | 13427 | 13441 | 13456 | 13458 | 13475 | |
| | | S/T | 0.43 | 0.51 | 0.57 | 0.57 | 0.65 | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | |
| | | PI | 1.51 | 1.51 | 1.51 | 1.51 | 1.51 | 1.60 | 1.60 | 1.60 | 1.60 | 1.61 | 1.70 | 1.70 | 1.70 | 1.70 | 1.70 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | |
| | 110°F(43.0°C) | TC | 7729 | 7739 | 7747 | 7748 | 7758 | 8194 | 8204 | 8212 | 8214 | 8224 | 8684 | 8695 | 8705 | 8707 | 8716 | 9207 | 9217 | 9227 | 9229 | 9240 | |
| | | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | |
| | | PI | 1.33 | 1.33 | 1.33 | 1.33 | 1.34 | 1.41 | 1.41 | 1.41 | 1.42 | 1.42 | 1.50 | 1.50 | 1.50 | 1.50 | 1.50 | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | |
| | 115°F(46.0°C) | TC | 19662 | 19688 | 19709 | 19710 | 19737 | 20846 | 20871 | 20892 | 20896 | 20921 | 22092 | 22121 | 22145 | 22149 | 22174 | 23423 | 23448 | 23474 | 23478 | 23507 | |
| | | S/T | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | |
| | | PI | 1.42 | 1.42 | 1.42 | 1.42 | 1.42 | 1.50 | 1.50 | 1.50 | 1.50 | 1.51 | 1.59 | 1.59 | 1.59 | 1.59 | 1.60 | 1.69 | 1.69 | 1.69 | 1.69 | 1.69 | |
| | 122°F(50.0°C) | TC | 21174 | 21202 | 21225 | 21226 | 21255 | 22450 | 22477 | 22499 | 22503 | 22530 | 23791 | 23822 | 23849 | 23853 | 23880 | 25225 | 25252 | 25280 | 25284 | 25315 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | |
| | | PI | 1.52 | 1.53 | 1.53 | 1.53 | 1.53 | 1.62 | 1.62 | 1.62 | 1.62 | 1.62 | 1.71 | 1.71 | 1.72 | 1.72 | 1.72 | 1.82 | 1.82 | 1.82 | 1.82 | 1.82 | |
| | 810 | -22°F(-3.0°C) | TC | 21846 | 21876 | 21899 | 21900 | 21930 | 23163 | 23190 | 23213 | 23218 | 23245 | 24547 | 24578 | 24606 | 24610 | 24638 | 26026 | 26054 | 26082 | 26086 | 26119 |
| | | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 |
| | | | PI | 1.57 | 1.57 | 1.58 | 1.58 | 1.58 | 1.67 | 1.67 | 1.67 | 1.67 | 1.67 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 1.87 | 1.88 | 1.88 | 1.88 | 1.88 |
| -13°F(-2.5°C) | | TC | 22686 | 22717 | 22741 | 22742 | 22773 | 24054 | 24082 | 24106 | 24111 | 24139 | 25491 | 25524 | 25552 | 25557 | 25585 | 27027 | 27056 | 27085 | 27090 | 27123 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | | PI | 1.63 | 1.64 | 1.64 | 1.64 | 1.64 | 1.73 | 1.73 | 1.74 | 1.74 | 1.74 | 1.83 | 1.84 | 1.84 | 1.84 | 1.84 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | |
| -4°F(-20.0°C) | | TC | 22710 | 22741 | 22765 | 22766 | 22797 | 24079 | 24107 | 24131 | 24136 | 24164 | 25517 | 25550 | 25579 | 25584 | 25612 | 27055 | 27084 | 27114 | 27118 | 27152 | |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | | PI | 1.59 | 1.59 | 1.59 | 1.59 | 1.59 | 1.68 | 1.68 | 1.68 | 1.68 | 1.69 | 1.78 | 1.78 | 1.79 | 1.79 | 1.79 | 1.89 | 1.89 | 1.89 | 1.89 | 1.90 | |
| 0°F(-17.8°C) | | TC | 22718 | 22748 | 22773 | 22774 | 22805 | 24087 | 24115 | 24139 | 24144 | 24173 | 25526 | 25559 | 25588 | 25592 | 25621 | 27064 | 27093 | 27123 | 27127 | 27161 | |
| | | S/T | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | |
| | | PI | 1.57 | 1.57 | 1.57 | 1.57 | 1.58 | 1.66 | 1.67 | 1.67 | 1.67 | 1.67 | 1.76 | 1.77 | 1.77 | 1.77 | 1.77 | 1.87 | 1.87 | 1.87 | 1.87 | 1.88 | |
| 5°F(-15.0°C) | | TC | 23702 | 23734 | 23760 | 23761 | 23793 | 25130 | 25160 | 25185 | 25190 | 25220 | 26632 | 26666 | 26696 | 26701 | 26731 | 28237 | 28267 | 28298 | 28302 | 28338 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.59 | 0.68 | 0.68 | 0.77 | |
| | | PI | 1.63 | 1.63 | 1.64 | 1.64 | 1.64 | 1.73 | 1.73 | 1.73 | 1.73 | 1.74 | 1.83 | 1.84 | 1.84 | 1.84 | 1.84 | 1.94 | 1.95 | 1.95 | 1.95 | 1.95 | |
| 14°F(-1.0°C) | | TC | 25670 | 25705 | 25733 | 25734 | 25769 | 27217 | 27250 | 27277 | 27282 | 27314 | 28844 | 28881 | 28913 | 28919 | 28951 | 30581 | 30615 | 30648 | 30653 | 30691 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | |
| | | PI | 1.76 | 1.76 | 1.76 | 1.76 | 1.76 | 1.86 | 1.86 | 1.87 | 1.87 | 1.87 | 1.97 | 1.98 | 1.98 | 1.98 | 1.98 | 2.09 | 2.10 | 2.10 | 2.10 | 2.10 | |
| 17°F(-8.3°C) | TC | 24840 | 24873 | 24900 | 24901 | 24935 | 26337 | 26368 | 26394 | 26399 | 26431 | 27910 | 27946 | 27978 | 27983 | 28014 | 29592 | 29624 | 29656 | 29661 | 29698 | | |
| | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | | |
| | PI | 1.73 | 1.74 | 1.74 | 1.74 | 1.74 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 2.06 | 2.07 | 2.07 | 2.07 | 2.07 | | |
| 23°F(-5.0°C) | TC | 24009 | 24041 | 24067 | 24068 | 24101 | 25456 | 25486 | 25511 | 25516 | 25547 | 26977 | 27012 | 27042 | 27047 | 27077 | 28602 | 28633 | 28665 | 28669 | 28705 | | |
| | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | | |
| | PI | 1.71 | 1.71 | 1.71 | 1.71 | 1.72 | 1.81 | 1.81 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | | |
| 35°F(1.7°C) | TC | 24195 | 24228 | 24254 | 24255 | 24288 | 25653 | 25684 | 25709 | 25714 | 25745 | 27186 | 27221 | 27252 | 27257 | 27287 | 28824 | 28855 | 28887 | 28891 | 28927 | | |
| | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | | |
| | PI | 1.72 | 1.72 | 1.72 | 1.72 | 1.73 | 1.82 | 1.83 | 1.83 | 1.83 | 1.83 | 1.93 | 1.93 | 1.94 | 1.94 | 1.94 | 2.05 | 2.05 | 2.05 | 2.05 | 2.06 | | |
| 41°F(5.0°C) | TC | 24753 | 24786 | 24813 | 24814 | 24848 | 26245 | 26276 | 26302 | 26307 | 26338 | 27813 | 27849 | 27880 | 27885 | 27916 | 29489 | 29521 | 29553 | 29557 | 29594 | | |
| | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | | |
| | PI | 1.75 | 1.75 | 1.75 | 1.75 | 1.76 | 1.86 | 1.86 | 1.86 | 1.86 | 1.86 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 2.08 | 2.09 | 2.09 | 2.09 | 2.09 | | |
| 47°F(8.3°C) | TC | 25311 | 25345 | 25373 | 25374 | 25408 | 26837 | 26868 | 26895 | 26900 | 26932 | 28440 | 28477 | 28509 | 28514 | 28546 | 30153 | 30186 | 30219 | 30224 | 30261 | | |
| | S/T | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | | |
| | PI | 1.78 | 1.78 | 1.78 | 1.78 | 1.79 | 1.89 | 1.89 | 1.89 | 1.89 | 1.89 | 2.00 | 2.00 | 2.01 | 2.01 | 2.01 | 2.12 | 2.12 | 2.13 | 2.13 | 2.13 | | |
| 50°F(10.0°C) | TC | 25869 | 25904 | 25932 | 25933 | 25968 | 27428 | 27461 | 27488 | 27493 | 27526 | 29067 | 29105 | 29137 | 29142 | 29175 | 30818 | 30852 | 30885 | 30890 | 30929 | | |
| | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.59 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | | |
| | PI | 1.81 | 1.81 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.92 | 1.92 | 1.93 | 2.03 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | | |

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

Table 4 – 27K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 810 | 59°F(15.0°C) | TC | 25517 | 25551 | 25579 | 25580 | 25614 | 27054 | 27086 | 27113 | 27119 | 27151 | 28671 | 28708 | 28740 | 28745 | 28777 | 30398 | 30431 | 30464 | 30469 | 30507 |
| | | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 |
| | | PI | 1.86 | 1.86 | 1.87 | 1.87 | 1.87 | 1.97 | 1.98 | 1.98 | 1.98 | 1.98 | 2.09 | 2.09 | 2.10 | 2.10 | 2.10 | 2.22 | 2.22 | 2.22 | 2.22 | 2.23 |
| | 68°F(20.0°C) | TC | 24399 | 24432 | 24458 | 24459 | 24492 | 25869 | 25900 | 25925 | 25930 | 25961 | 27415 | 27450 | 27481 | 27486 | 27517 | 29066 | 29098 | 29130 | 29134 | 29171 |
| | | S/T | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.73 | 0.73 | 0.84 |
| | | PI | 1.94 | 1.95 | 1.95 | 1.95 | 1.95 | 2.06 | 2.06 | 2.06 | 2.06 | 2.07 | 2.18 | 2.19 | 2.19 | 2.19 | 2.19 | 2.31 | 2.32 | 2.32 | 2.32 | 2.32 |
| | 77°F(25.0°C) | TC | 21883 | 21913 | 21936 | 21937 | 21967 | 23202 | 23230 | 23252 | 23257 | 23285 | 24588 | 24620 | 24648 | 24652 | 24680 | 26070 | 26098 | 26127 | 26131 | 26163 |
| | | S/T | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.73 | 0.73 | 0.84 |
| | | PI | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.25 | 2.26 | 2.26 | 2.26 | 2.26 | 2.39 | 2.39 | 2.39 | 2.40 | 2.40 | 2.53 | 2.54 | 2.54 | 2.54 | 2.54 |
| | 82°F(27.8°C) | TC | 18253 | 18278 | 18297 | 18298 | 18323 | 19353 | 19376 | 19395 | 19399 | 19422 | 20510 | 20536 | 20559 | 20563 | 20586 | 21745 | 21769 | 21793 | 21796 | 21823 |
| | | S/T | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 |
| | | PI | 1.98 | 1.98 | 1.99 | 1.99 | 1.99 | 2.10 | 2.10 | 2.11 | 2.11 | 2.11 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.36 | 2.36 | 2.37 | 2.37 | 2.37 |
| | 86°F(30.0°C) | TC | 16075 | 16097 | 16114 | 16115 | 16137 | 17044 | 17064 | 17081 | 17084 | 17105 | 18062 | 18086 | 18106 | 18109 | 18129 | 19151 | 19171 | 19192 | 19195 | 19219 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.89 | 1.90 | 1.90 | 1.90 | 1.90 | 2.01 | 2.01 | 2.01 | 2.01 | 2.02 | 2.13 | 2.13 | 2.13 | 2.13 | 2.14 | 2.26 | 2.26 | 2.26 | 2.26 | 2.27 |
| | 95°F(35.0°C) | TC | 13009 | 13027 | 13041 | 13041 | 13059 | 13793 | 13809 | 13823 | 13826 | 13842 | 14617 | 14636 | 14652 | 14655 | 14671 | 15498 | 15515 | 15531 | 15534 | 15553 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 |
| | | PI | 1.74 | 1.74 | 1.75 | 1.75 | 1.75 | 1.85 | 1.85 | 1.85 | 1.85 | 1.85 | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 2.07 | 2.08 | 2.08 | 2.08 | 2.08 |
| | 104°F(40.0°C) | TC | 8921 | 8933 | 8942 | 8943 | 8955 | 9458 | 9470 | 9479 | 9481 | 9492 | 10023 | 10036 | 10048 | 10050 | 10061 | 10627 | 10639 | 10651 | 10652 | 10665 |
| | | S/T | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 |
| | | PI | 1.54 | 1.54 | 1.54 | 1.54 | 1.54 | 1.63 | 1.63 | 1.63 | 1.63 | 1.64 | 1.73 | 1.73 | 1.73 | 1.73 | 1.73 | 1.83 | 1.83 | 1.83 | 1.84 | 1.84 |
| | 110°F(43.0°C) | TC | 22694 | 22725 | 22749 | 22750 | 22781 | 24062 | 24090 | 24114 | 24119 | 24147 | 25499 | 25532 | 25561 | 25566 | 25594 | 27036 | 27065 | 27095 | 27099 | 27133 |
| | | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 |
| | | PI | 1.63 | 1.64 | 1.64 | 1.64 | 1.64 | 1.73 | 1.73 | 1.74 | 1.74 | 1.74 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 |
| 115°F(46.0°C) | TC | 24440 | 24473 | 24499 | 24500 | 24533 | 25913 | 25943 | 25969 | 25974 | 26005 | 27461 | 27496 | 27527 | 27532 | 27563 | 29115 | 29147 | 29179 | 29183 | 29220 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | |
| | PI | 1.76 | 1.76 | 1.76 | 1.76 | 1.77 | 1.87 | 1.87 | 1.87 | 1.87 | 1.87 | 1.98 | 1.98 | 1.98 | 1.98 | 1.98 | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | |
| 122°F(50.0°C) | TC | 25216 | 25250 | 25277 | 25278 | 25312 | 26735 | 26767 | 26793 | 26799 | 26830 | 28333 | 28369 | 28401 | 28406 | 28438 | 30040 | 30072 | 30105 | 30110 | 30147 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 1.82 | 1.82 | 1.82 | 1.82 | 1.82 | 1.92 | 1.93 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.05 | 2.16 | 2.16 | 2.17 | 2.17 | 2.17 | |
| 963 | -22°F(-30.0°C) | TC | 26185 | 26221 | 26249 | 26250 | 26286 | 27764 | 27796 | 27824 | 27829 | 27862 | 29422 | 29460 | 29493 | 29499 | 29532 | 31195 | 31229 | 31263 | 31268 | 31307 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 1.88 | 1.89 | 1.89 | 1.89 | 1.89 | 2.00 | 2.00 | 2.00 | 2.00 | 2.01 | 2.12 | 2.12 | 2.12 | 2.12 | 2.13 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 |
| | -13°F(-25.0°C) | TC | 26213 | 26248 | 26276 | 26277 | 26313 | 27792 | 27825 | 27853 | 27858 | 27891 | 29453 | 29491 | 29524 | 29530 | 29562 | 31228 | 31261 | 31295 | 31300 | 31339 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 1.83 | 1.83 | 1.83 | 1.83 | 1.84 | 1.94 | 1.94 | 1.94 | 1.94 | 1.95 | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | 2.18 | 2.18 | 2.18 | 2.18 | 2.19 |
| | -4°F(-20.0°C) | TC | 26222 | 26257 | 26285 | 26287 | 26322 | 27802 | 27835 | 27863 | 27868 | 27901 | 29463 | 29501 | 29534 | 29540 | 29573 | 31238 | 31272 | 31306 | 31311 | 31350 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.78 | 0.78 | 0.88 |
| | | PI | 1.81 | 1.81 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.92 | 1.92 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 |
| | 0°F(-17.8°C) | TC | 27358 | 27395 | 27424 | 27425 | 27462 | 29007 | 29041 | 29070 | 29075 | 29110 | 30740 | 30779 | 30814 | 30819 | 30854 | 32592 | 32627 | 32663 | 32668 | 32708 |
| | | S/T | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.58 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 1.88 | 1.89 | 1.89 | 1.89 | 1.89 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.24 | 2.25 | 2.25 | 2.25 | 2.25 |
| | 5°F(-15.0°C) | TC | 29630 | 29670 | 29702 | 29703 | 29743 | 31415 | 31453 | 31484 | 31490 | 31527 | 33292 | 33336 | 33373 | 33379 | 33416 | 35298 | 35337 | 35375 | 35381 | 35425 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 2.03 | 2.03 | 2.03 | 2.03 | 2.04 | 2.15 | 2.15 | 2.15 | 2.16 | 2.16 | 2.28 | 2.28 | 2.28 | 2.28 | 2.29 | 2.42 | 2.42 | 2.42 | 2.42 | 2.42 |
| | 14°F(-10.0°C) | TC | 28671 | 28710 | 28741 | 28742 | 28781 | 30399 | 30435 | 30465 | 30471 | 30507 | 32215 | 32257 | 32293 | 32299 | 32335 | 34156 | 34193 | 34230 | 34236 | 34278 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 2.00 | 2.00 | 2.01 | 2.01 | 2.01 | 2.12 | 2.12 | 2.13 | 2.13 | 2.13 | 2.25 | 2.25 | 2.25 | 2.25 | 2.26 | 2.38 | 2.39 | 2.39 | 2.39 | 2.39 |
| | 17°F(-8.3°C) | TC | 27712 | 27750 | 27779 | 27781 | 27818 | 29382 | 29417 | 29446 | 29452 | 29487 | 31138 | 31178 | 31213 | 31219 | 31254 | 33014 | 33050 | 33086 | 33091 | 33132 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.85 | 0.59 | 0.69 | 0.79 | 0.79 | 0.90 |
| | | PI | 1.97 | 1.98 | 1.98 | 1.98 | 1.98 | 2.09 | 2.09 | 2.10 | 2.10 | 2.10 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.35 | 2.35 | 2.36 | 2.36 | 2.36 |

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

Table 4 – 27K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 963 | 23°F(-5.0°C) | TC | 27927 | 27965 | 27995 | 27996 | 28034 | 29610 | 29645 | 29674 | 29680 | 29715 | 31379 | 31420 | 31455 | 31461 | 31496 | 33270 | 33306 | 33342 | 33347 | 33389 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 |
| | | PI | 1.98 | 1.99 | 1.99 | 1.99 | 1.99 | 2.10 | 2.11 | 2.11 | 2.11 | 2.11 | 2.23 | 2.23 | 2.24 | 2.24 | 2.24 | 2.36 | 2.37 | 2.37 | 2.37 | 2.37 |
| | 35°F(1.7°C) | TC | 28571 | 28609 | 28640 | 28642 | 28680 | 30293 | 30329 | 30359 | 30365 | 30401 | 32103 | 32144 | 32180 | 32186 | 32222 | 34037 | 34074 | 34111 | 34116 | 34159 |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 |
| | | PI | 2.02 | 2.02 | 2.02 | 2.02 | 2.03 | 2.14 | 2.14 | 2.15 | 2.15 | 2.15 | 2.27 | 2.27 | 2.27 | 2.28 | 2.28 | 2.41 | 2.41 | 2.41 | 2.41 | 2.41 |
| | 41°F(5.0°C) | TC | 29215 | 29254 | 29286 | 29287 | 29327 | 30976 | 31012 | 31043 | 31049 | 31086 | 32826 | 32869 | 32906 | 32912 | 32949 | 34804 | 34842 | 34880 | 34885 | 34929 |
| | | S/T | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.61 | 0.72 | 0.82 | 0.82 | 0.93 |
| | | PI | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | 2.18 | 2.18 | 2.18 | 2.18 | 2.19 | 2.31 | 2.31 | 2.31 | 2.32 | 2.32 | 2.45 | 2.45 | 2.45 | 2.45 | 2.46 |
| | 47°F(8.3°C) | TC | 29859 | 29899 | 29932 | 29933 | 29973 | 31659 | 31696 | 31727 | 31734 | 31771 | 33550 | 33594 | 33631 | 33637 | 33675 | 35572 | 35610 | 35649 | 35655 | 35699 |
| | | S/T | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.94 |
| | | PI | 2.09 | 2.09 | 2.10 | 2.10 | 2.10 | 2.22 | 2.22 | 2.22 | 2.22 | 2.22 | 2.35 | 2.35 | 2.35 | 2.35 | 2.36 | 2.49 | 2.49 | 2.50 | 2.50 | 2.50 |
| | 50°F(10.0°C) | TC | 29452 | 29492 | 29524 | 29525 | 29565 | 31227 | 31264 | 31295 | 31301 | 31338 | 33093 | 33136 | 33173 | 33179 | 33216 | 35087 | 35125 | 35163 | 35169 | 35212 |
| | | S/T | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | 0.63 | 0.74 | 0.84 | 0.84 | 0.95 |
| | | PI | 2.15 | 2.15 | 2.15 | 2.15 | 2.16 | 2.28 | 2.28 | 2.28 | 2.28 | 2.29 | 2.41 | 2.42 | 2.42 | 2.42 | 2.42 | 2.56 | 2.56 | 2.56 | 2.56 | 2.57 |
| | 59°F(15.0°C) | TC | 28162 | 28200 | 28230 | 28231 | 28270 | 29859 | 29894 | 29924 | 29930 | 29965 | 31643 | 31684 | 31719 | 31725 | 31761 | 33550 | 33586 | 33623 | 33628 | 33670 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 2.24 | 2.25 | 2.25 | 2.25 | 2.25 | 2.38 | 2.38 | 2.38 | 2.38 | 2.39 | 2.52 | 2.52 | 2.53 | 2.53 | 2.53 | 2.67 | 2.67 | 2.68 | 2.68 | 2.68 |
| | 68°F(20.0°C) | TC | 25259 | 25292 | 25320 | 25321 | 25355 | 26781 | 26812 | 26839 | 26844 | 26876 | 28381 | 28418 | 28449 | 28455 | 28486 | 30091 | 30123 | 30156 | 30161 | 30198 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 2.45 | 2.46 | 2.46 | 2.46 | 2.46 | 2.60 | 2.60 | 2.61 | 2.61 | 2.61 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.92 | 2.93 | 2.93 | 2.93 | 2.93 |
| | 77°F(25.0°C) | TC | 21069 | 21097 | 21120 | 21121 | 21149 | 22338 | 22365 | 22387 | 22391 | 22418 | 23673 | 23704 | 23730 | 23734 | 23761 | 25099 | 25126 | 25154 | 25158 | 25189 |
| | | S/T | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.62 | 0.72 | 0.82 | 0.82 | 0.93 | 0.65 | 0.76 | 0.87 | 0.87 | 0.99 |
| | | PI | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 | 2.42 | 2.43 | 2.43 | 2.43 | 2.43 | 2.57 | 2.57 | 2.58 | 2.58 | 2.58 | 2.72 | 2.73 | 2.73 | 2.73 | 2.73 |
| 82°F(27.8°C) | TC | 18555 | 18580 | 18600 | 18600 | 18626 | 19673 | 19696 | 19716 | 19719 | 19743 | 20848 | 20875 | 20899 | 20902 | 20926 | 22104 | 22128 | 22152 | 22156 | 22183 | |
| | S/T | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | 0.68 | 0.79 | 0.90 | 0.90 | 1.00 | |
| | PI | 2.19 | 2.19 | 2.19 | 2.19 | 2.20 | 2.32 | 2.32 | 2.32 | 2.32 | 2.33 | 2.46 | 2.46 | 2.46 | 2.46 | 2.47 | 2.61 | 2.61 | 2.61 | 2.61 | 2.61 | |
| 86°F(30.0°C) | TC | 15016 | 15036 | 15052 | 15053 | 15073 | 15920 | 15939 | 15955 | 15958 | 15977 | 16872 | 16893 | 16912 | 16915 | 16934 | 17888 | 17908 | 17927 | 17930 | 17952 | |
| | S/T | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 | 0.65 | 0.76 | 0.86 | 0.86 | 0.98 | 0.68 | 0.80 | 0.91 | 0.91 | 1.00 | |
| | PI | 2.01 | 2.01 | 2.01 | 2.01 | 2.02 | 2.13 | 2.13 | 2.14 | 2.14 | 2.14 | 2.26 | 2.26 | 2.26 | 2.26 | 2.27 | 2.39 | 2.40 | 2.40 | 2.40 | 2.40 | |
| 95°F(35.0°C) | TC | 10297 | 10311 | 10322 | 10322 | 10336 | 10917 | 10930 | 10941 | 10943 | 10956 | 11569 | 11584 | 11597 | 11600 | 11612 | 12267 | 12280 | 12293 | 12295 | 12310 | |
| | S/T | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 | 0.66 | 0.77 | 0.88 | 0.88 | 1.00 | 0.70 | 0.82 | 0.93 | 0.93 | 1.00 | |
| | PI | 1.77 | 1.78 | 1.78 | 1.78 | 1.78 | 1.88 | 1.88 | 1.88 | 1.89 | 1.89 | 1.99 | 2.00 | 2.00 | 2.00 | 2.00 | 2.11 | 2.12 | 2.12 | 2.12 | 2.12 | |
| 104°F(40.0°C) | TC | 14758 | 14778 | 14794 | 14794 | 14814 | 15647 | 15666 | 15681 | 15684 | 15703 | 16582 | 16604 | 16622 | 16625 | 16644 | 17581 | 17600 | 17620 | 17622 | 17644 | |
| | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.47 | 0.33 | 0.39 | 0.44 | 0.44 | 0.50 | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.44 | 0.49 | 0.50 | 0.56 | |
| | PI | 1.06 | 1.06 | 1.06 | 1.06 | 1.07 | 1.13 | 1.13 | 1.13 | 1.13 | 1.13 | 1.19 | 1.20 | 1.20 | 1.20 | 1.20 | 1.27 | 1.27 | 1.27 | 1.27 | 1.27 | |
| 110°F(43.0°C) | TC | 15893 | 15915 | 15932 | 15932 | 15954 | 16851 | 16871 | 16888 | 16891 | 16911 | 17858 | 17881 | 17901 | 17904 | 17924 | 18934 | 18954 | 18975 | 18978 | 19002 | |
| | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | |
| | PI | 1.14 | 1.15 | 1.15 | 1.15 | 1.15 | 1.21 | 1.21 | 1.22 | 1.22 | 1.22 | 1.29 | 1.29 | 1.29 | 1.29 | 1.29 | 1.36 | 1.36 | 1.37 | 1.37 | 1.37 | |
| 115°F(46.0°C) | TC | 16398 | 16420 | 16437 | 16438 | 16460 | 17386 | 17407 | 17424 | 17427 | 17448 | 18425 | 18449 | 18469 | 18473 | 18493 | 19535 | 19556 | 19577 | 19580 | 19605 | |
| | S/T | 0.31 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.44 | 0.44 | 0.51 | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | |
| | PI | 1.18 | 1.18 | 1.18 | 1.18 | 1.18 | 1.25 | 1.25 | 1.25 | 1.25 | 1.26 | 1.33 | 1.33 | 1.33 | 1.33 | 1.33 | 1.41 | 1.41 | 1.41 | 1.41 | 1.41 | |
| 122°F(50.0°C) | TC | 17028 | 17051 | 17070 | 17070 | 17093 | 18055 | 18076 | 18094 | 18097 | 18119 | 19133 | 19158 | 19180 | 19183 | 19204 | 20286 | 20308 | 20330 | 20333 | 20359 | |
| | S/T | 0.32 | 0.37 | 0.42 | 0.42 | 0.48 | 0.33 | 0.39 | 0.45 | 0.45 | 0.51 | 0.35 | 0.42 | 0.47 | 0.47 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | |
| | PI | 1.23 | 1.23 | 1.23 | 1.23 | 1.23 | 1.30 | 1.30 | 1.30 | 1.30 | 1.30 | 1.38 | 1.38 | 1.38 | 1.38 | 1.38 | 1.46 | 1.46 | 1.46 | 1.46 | 1.47 | |

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

**PI: Power Input (kW)
Extrapolated Data**

LEGEND

TC - Total Net Capacity (Btu/hour)
S/T: Sensible Cooling Capacity Ratio

COOLING PERFORMANCE 36K

Table 5 – 36K Cooling Performance

| AIRFLOW (CFM) | OUTDOOR DB °F(°C) | ID WB °F(°C) ID DB °F °C | 60.8°F(16.0°C) | | | | | 64.4°F(18.0°C) | | | | | 67°F(19.4°C) | | | | | 71.6°F(22.0°C) | | | | |
|------------------|----------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C |
| | | | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T |
| 685 | -22°F(-30.0°C) | TC | 21113 | 21142 | 21165 | 21166 | 21194 | 22386 | 22412 | 22434 | 22439 | 22466 | 23723 | 23754 | 23781 | 23785 | 23812 | 25153 | 25180 | 25207 | 25211 | 25243 |
| | | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 |
| | | PI | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 |
| | -13°F(-25.0°C) | TC | 22738 | 22768 | 22793 | 22794 | 22824 | 24108 | 24136 | 24160 | 24165 | 24194 | 25548 | 25581 | 25610 | 25615 | 25643 | 27087 | 27117 | 27146 | 27151 | 27184 |
| | | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 |
| | | PI | 2.07 | 2.07 | 2.07 | 2.07 | 2.08 | 2.19 | 2.20 | 2.20 | 2.20 | 2.20 | 2.33 | 2.33 | 2.33 | 2.33 | 2.33 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 |
| | -4°F(-20.0°C) | TC | 23459 | 23491 | 23516 | 23517 | 23549 | 24873 | 24903 | 24927 | 24932 | 24962 | 26359 | 26393 | 26423 | 26428 | 26457 | 27947 | 27978 | 28008 | 28013 | 28047 |
| | | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.62 |
| | | PI | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.26 | 2.27 | 2.27 | 2.27 | 2.27 | 2.40 | 2.40 | 2.40 | 2.41 | 2.41 | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 |
| | 0°F(-17.8°C) | TC | 24362 | 24394 | 24421 | 24422 | 24455 | 25830 | 25860 | 25886 | 25891 | 25922 | 27373 | 27409 | 27439 | 27444 | 27475 | 29022 | 29054 | 29085 | 29090 | 29126 |
| | | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 |
| | | PI | 2.22 | 2.22 | 2.22 | 2.22 | 2.23 | 2.35 | 2.35 | 2.36 | 2.36 | 2.36 | 2.49 | 2.49 | 2.50 | 2.50 | 2.50 | 2.64 | 2.64 | 2.65 | 2.65 | 2.65 |
| | 5°F(-15.0°C) | TC | 24621 | 24655 | 24681 | 24682 | 24715 | 26105 | 26136 | 26162 | 26167 | 26198 | 27665 | 27701 | 27732 | 27737 | 27768 | 29332 | 29364 | 29396 | 29400 | 29437 |
| | | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 |
| | | PI | 2.15 | 2.15 | 2.15 | 2.15 | 2.16 | 2.28 | 2.28 | 2.28 | 2.28 | 2.29 | 2.41 | 2.42 | 2.42 | 2.42 | 2.42 | 2.56 | 2.56 | 2.57 | 2.57 | 2.57 |
| | 14°F(-10.0°C) | TC | 24708 | 24741 | 24768 | 24769 | 24802 | 26197 | 26228 | 26254 | 26259 | 26290 | 27762 | 27798 | 27829 | 27834 | 27865 | 29435 | 29467 | 29499 | 29504 | 29540 |
| | | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.43 | 0.49 | 0.49 | 0.55 | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 |
| | | PI | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.25 | 2.26 | 2.26 | 2.26 | 2.26 | 2.39 | 2.39 | 2.40 | 2.40 | 2.40 | 2.53 | 2.54 | 2.54 | 2.54 | 2.54 |
| | 17°F(-8.3°C) | TC | 25034 | 25068 | 25095 | 25096 | 25130 | 26543 | 26575 | 26601 | 26606 | 26638 | 28129 | 28166 | 28197 | 28202 | 28234 | 29824 | 29856 | 29889 | 29893 | 29931 |
| | | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 |
| | | PI | 2.02 | 2.02 | 2.03 | 2.03 | 2.03 | 2.14 | 2.15 | 2.15 | 2.15 | 2.15 | 2.27 | 2.27 | 2.28 | 2.28 | 2.28 | 2.41 | 2.41 | 2.41 | 2.41 | 2.42 |
| | 23°F(-5.0°C) | TC | 25687 | 25722 | 25750 | 25751 | 25786 | 27235 | 27268 | 27295 | 27300 | 27332 | 28863 | 28900 | 28932 | 28938 | 28970 | 30602 | 30635 | 30668 | 30673 | 30711 |
| | | S/T | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 |
| | | PI | 1.81 | 1.82 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 |
| 35°F(1.7°C) | TC | 25868 | 25903 | 25931 | 25932 | 25967 | 27427 | 27460 | 27487 | 27492 | 27525 | 29066 | 29103 | 29136 | 29141 | 29174 | 30817 | 30851 | 30884 | 30889 | 30927 | |
| | S/T | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | |
| | PI | 1.85 | 1.86 | 1.86 | 1.86 | 1.86 | 1.96 | 1.97 | 1.97 | 1.97 | 1.97 | 2.08 | 2.08 | 2.09 | 2.09 | 2.09 | 2.21 | 2.21 | 2.21 | 2.21 | 2.22 | |
| 41°F(5.0°C) | TC | 26049 | 26084 | 26112 | 26113 | 26148 | 27619 | 27652 | 27679 | 27684 | 27717 | 29269 | 29307 | 29340 | 29345 | 29378 | 31032 | 31066 | 31100 | 31105 | 31144 | |
| | S/T | 0.35 | 0.41 | 0.46 | 0.46 | 0.53 | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | |
| | PI | 1.89 | 1.90 | 1.90 | 1.90 | 1.90 | 2.01 | 2.01 | 2.01 | 2.01 | 2.01 | 2.13 | 2.13 | 2.13 | 2.13 | 2.14 | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | |
| 47°F(8.3°C) | TC | 26121 | 26157 | 26185 | 26186 | 26221 | 27696 | 27728 | 27756 | 27761 | 27794 | 29350 | 29388 | 29421 | 29427 | 29459 | 31119 | 31152 | 31186 | 31191 | 31230 | |
| | S/T | 0.35 | 0.41 | 0.47 | 0.47 | 0.53 | 0.37 | 0.44 | 0.49 | 0.50 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | |
| | PI | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 2.01 | 2.01 | 2.01 | 2.02 | 2.02 | 2.13 | 2.13 | 2.14 | 2.14 | 2.14 | 2.26 | 2.26 | 2.26 | 2.26 | 2.27 | |
| 50°F(10.0°C) | TC | 26339 | 26374 | 26402 | 26404 | 26439 | 27926 | 27959 | 27987 | 27992 | 28025 | 29594 | 29633 | 29666 | 29671 | 29704 | 31377 | 31412 | 31446 | 31451 | 31490 | |
| | S/T | 0.35 | 0.41 | 0.47 | 0.47 | 0.54 | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | |
| | PI | 1.90 | 1.91 | 1.91 | 1.91 | 1.91 | 2.02 | 2.02 | 2.02 | 2.02 | 2.03 | 2.14 | 2.14 | 2.14 | 2.15 | 2.15 | 2.27 | 2.27 | 2.27 | 2.27 | 2.28 | |
| 59°F(15.0°C) | TC | 26556 | 26592 | 26620 | 26621 | 26657 | 28156 | 28190 | 28218 | 28223 | 28257 | 29838 | 29877 | 29911 | 29916 | 29950 | 31636 | 31671 | 31705 | 31710 | 31750 | |
| | S/T | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | |
| | PI | 1.91 | 1.91 | 1.92 | 1.92 | 1.92 | 2.03 | 2.03 | 2.03 | 2.03 | 2.03 | 2.15 | 2.15 | 2.15 | 2.15 | 2.16 | 2.28 | 2.28 | 2.28 | 2.28 | 2.29 | |
| 68°F(20.0°C) | TC | 26773 | 26809 | 26838 | 26839 | 26875 | 28387 | 28420 | 28448 | 28454 | 28488 | 30083 | 30122 | 30155 | 30161 | 30195 | 31895 | 31930 | 31965 | 31970 | 32009 | |
| | S/T | 0.37 | 0.43 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | |
| | PI | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 | |
| 77°F(25.0°C) | TC | 26304 | 26339 | 26368 | 26369 | 26404 | 27889 | 27922 | 27950 | 27955 | 27989 | 29555 | 29594 | 29627 | 29632 | 29665 | 31336 | 31370 | 31404 | 31409 | 31448 | |
| | S/T | 0.37 | 0.44 | 0.49 | 0.49 | 0.56 | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | |
| | PI | 2.00 | 2.01 | 2.01 | 2.01 | 2.01 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.25 | 2.26 | 2.26 | 2.26 | 2.26 | 2.39 | 2.39 | 2.39 | 2.39 | 2.40 | |

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

Table 5 – 36K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|---------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 685 | 82°F(27.8°C) | TC | 25184 | 25218 | 25245 | 25246 | 25280 | 26702 | 26734 | 26760 | 26765 | 26797 | 28297 | 28334 | 28366 | 28371 | 28403 | 30002 | 30035 | 30068 | 30072 | 30110 |
| | | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 |
| | | PI | 2.17 | 2.18 | 2.18 | 2.18 | 2.18 | 2.30 | 2.31 | 2.31 | 2.31 | 2.31 | 2.44 | 2.44 | 2.45 | 2.45 | 2.45 | 2.59 | 2.59 | 2.59 | 2.59 | 2.60 |
| | 86°F(30.0°C) | TC | 22665 | 22695 | 22720 | 22721 | 22751 | 24031 | 24059 | 24083 | 24088 | 24116 | 25466 | 25500 | 25528 | 25533 | 25561 | 27001 | 27030 | 27060 | 27064 | 27098 |
| | | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 |
| | | PI | 2.55 | 2.55 | 2.56 | 2.56 | 2.56 | 2.70 | 2.71 | 2.71 | 2.71 | 2.71 | 2.87 | 2.87 | 2.87 | 2.87 | 2.88 | 3.04 | 3.04 | 3.05 | 3.05 | 3.05 |
| | 95°F(35.0°C) | TC | 17542 | 17565 | 17584 | 17585 | 17609 | 18599 | 18621 | 18639 | 18643 | 18665 | 19710 | 19735 | 19757 | 19761 | 19783 | 20897 | 20920 | 20943 | 20946 | 20972 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 |
| | | PI | 2.10 | 2.10 | 2.10 | 2.10 | 2.11 | 2.23 | 2.23 | 2.23 | 2.23 | 2.23 | 2.36 | 2.36 | 2.36 | 2.37 | 2.37 | 2.50 | 2.50 | 2.51 | 2.51 | 2.51 |
| | 104°F(40.0°C) | TC | 14468 | 14487 | 14503 | 14503 | 14523 | 15339 | 15358 | 15373 | 15376 | 15394 | 16256 | 16277 | 16295 | 16298 | 16316 | 17235 | 17254 | 17273 | 17276 | 17297 |
| | | S/T | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.63 | 0.63 | 0.72 |
| | | PI | 1.83 | 1.83 | 1.83 | 1.83 | 1.84 | 1.94 | 1.94 | 1.94 | 1.94 | 1.95 | 2.05 | 2.06 | 2.06 | 2.06 | 2.06 | 2.18 | 2.18 | 2.18 | 2.18 | 2.19 |
| | 110°F(43.0°C) | TC | 13562 | 13581 | 13595 | 13596 | 13614 | 14380 | 14397 | 14411 | 14414 | 14431 | 15239 | 15259 | 15276 | 15279 | 15296 | 16157 | 16175 | 16192 | 16195 | 16215 |
| | | S/T | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 |
| | | PI | 1.81 | 1.81 | 1.82 | 1.82 | 1.82 | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 |
| | 115°F(46.0°C) | TC | 12356 | 12372 | 12386 | 12386 | 12403 | 13100 | 13116 | 13129 | 13131 | 13147 | 13883 | 13901 | 13916 | 13919 | 13935 | 14719 | 14735 | 14751 | 14754 | 14772 |
| | | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | 0.46 | 0.54 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | PI | 1.79 | 1.79 | 1.79 | 1.79 | 1.80 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 2.01 | 2.01 | 2.01 | 2.02 | 2.02 | 2.13 | 2.13 | 2.14 | 2.14 | 2.14 |
| | 122°F(50.0°C) | TC | 23744 | 23776 | 23802 | 23803 | 23835 | 25175 | 25205 | 25230 | 25235 | 25265 | 26679 | 26714 | 26744 | 26748 | 26778 | 28287 | 28317 | 28348 | 28353 | 28388 |
| | | S/T | 0.38 | 0.44 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 |
| | | PI | 2.16 | 2.16 | 2.17 | 2.17 | 2.17 | 2.29 | 2.29 | 2.30 | 2.30 | 2.30 | 2.43 | 2.43 | 2.43 | 2.43 | 2.44 | 2.57 | 2.58 | 2.58 | 2.58 | 2.58 |

Table 5 – 36K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 859 | -22°F(-30.0°C) | TC | 25571 | 25605 | 25633 | 25634 | 25668 | 27112 | 27144 | 27170 | 27176 | 27208 | 28731 | 28769 | 28801 | 28806 | 28838 | 30462 | 30496 | 30529 | 30534 | 30572 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 |
| | | PI | 2.33 | 2.33 | 2.33 | 2.33 | 2.34 | 2.47 | 2.47 | 2.47 | 2.47 | 2.48 | 2.61 | 2.62 | 2.62 | 2.62 | 2.62 | 2.77 | 2.78 | 2.78 | 2.78 | 2.78 |
| | -13°F(-25.0°C) | TC | 26382 | 26418 | 26446 | 26447 | 26483 | 27972 | 28005 | 28033 | 28039 | 28072 | 29643 | 29682 | 29715 | 29721 | 29754 | 31430 | 31464 | 31498 | 31503 | 31542 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.53 | 0.61 | 0.61 | 0.69 |
| | | PI | 2.40 | 2.40 | 2.41 | 2.41 | 2.41 | 2.55 | 2.55 | 2.55 | 2.55 | 2.55 | 2.70 | 2.70 | 2.70 | 2.71 | 2.71 | 2.86 | 2.86 | 2.87 | 2.87 | 2.87 |
| | -4°F(-20.0°C) | TC | 27397 | 27434 | 27463 | 27465 | 27502 | 29048 | 29083 | 29111 | 29117 | 29152 | 30784 | 30824 | 30858 | 30864 | 30898 | 32638 | 32674 | 32709 | 32714 | 32755 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 |
| | | PI | 2.49 | 2.50 | 2.50 | 2.50 | 2.50 | 2.64 | 2.65 | 2.65 | 2.65 | 2.65 | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.97 | 2.97 | 2.98 | 2.98 | 2.98 |
| | 0°F(-17.8°C) | TC | 27689 | 27726 | 27756 | 27757 | 27795 | 29358 | 29393 | 29422 | 29427 | 29462 | 31112 | 31152 | 31187 | 31193 | 31228 | 32986 | 33022 | 33058 | 33063 | 33104 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 |
| | | PI | 2.42 | 2.42 | 2.42 | 2.42 | 2.43 | 2.56 | 2.57 | 2.57 | 2.57 | 2.57 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.88 | 2.88 | 2.89 | 2.89 | 2.89 |
| | 5°F(-15.0°C) | TC | 27786 | 27824 | 27854 | 27855 | 27893 | 29461 | 29496 | 29525 | 29531 | 29566 | 31221 | 31262 | 31297 | 31302 | 31337 | 33102 | 33138 | 33174 | 33180 | 33221 |
| | | S/T | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 |
| | | PI | 2.39 | 2.39 | 2.40 | 2.40 | 2.40 | 2.54 | 2.54 | 2.54 | 2.54 | 2.54 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.85 | 2.85 | 2.86 | 2.86 | 2.86 |
| | 14°F(-10.0°C) | TC | 28154 | 28192 | 28222 | 28223 | 28261 | 29850 | 29886 | 29915 | 29921 | 29957 | 31634 | 31675 | 31710 | 31716 | 31751 | 33540 | 33576 | 33613 | 33618 | 33660 |
| | | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 |
| | | PI | 2.27 | 2.28 | 2.28 | 2.28 | 2.28 | 2.41 | 2.41 | 2.42 | 2.42 | 2.42 | 2.56 | 2.56 | 2.56 | 2.56 | 2.56 | 2.71 | 2.71 | 2.71 | 2.72 | 2.72 |
| | 17°F(-8.3°C) | TC | 28888 | 28927 | 28958 | 28959 | 28998 | 30629 | 30665 | 30695 | 30701 | 30738 | 32459 | 32501 | 32537 | 32543 | 32580 | 34414 | 34452 | 34489 | 34495 | 34538 |
| | | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | 0.46 | 0.54 | 0.62 | 0.62 | 0.71 |
| | | PI | 2.04 | 2.04 | 2.04 | 2.04 | 2.05 | 2.16 | 2.16 | 2.17 | 2.17 | 2.17 | 2.29 | 2.29 | 2.30 | 2.30 | 2.30 | 2.43 | 2.43 | 2.43 | 2.43 | 2.44 |
| | 23°F(-5.0°C) | TC | 29091 | 29130 | 29162 | 29163 | 29202 | 30844 | 30881 | 30911 | 30918 | 30954 | 32687 | 32730 | 32766 | 32772 | 32809 | 34657 | 34694 | 34732 | 34738 | 34781 |
| | | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 |
| | | PI | 2.08 | 2.09 | 2.09 | 2.09 | 2.09 | 2.21 | 2.21 | 2.21 | 2.21 | 2.22 | 2.34 | 2.34 | 2.35 | 2.35 | 2.35 | 2.48 | 2.49 | 2.49 | 2.49 | 2.49 |
| 35°F(1.7°C) | TC | 29295 | 29334 | 29366 | 29367 | 29406 | 31060 | 31097 | 31127 | 31134 | 31171 | 32916 | 32958 | 32995 | 33001 | 33038 | 34899 | 34937 | 34975 | 34980 | 35024 | |
| | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.60 | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | |
| | PI | 2.13 | 2.13 | 2.13 | 2.13 | 2.14 | 2.26 | 2.26 | 2.26 | 2.26 | 2.27 | 2.39 | 2.40 | 2.40 | 2.40 | 2.40 | 2.54 | 2.54 | 2.54 | 2.54 | 2.55 | |
| 41°F(5.0°C) | TC | 29376 | 29416 | 29447 | 29449 | 29488 | 31146 | 31183 | 31214 | 31220 | 31257 | 33007 | 33050 | 33087 | 33093 | 33130 | 34996 | 35034 | 35072 | 35078 | 35121 | |
| | S/T | 0.39 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | |
| | PI | 2.13 | 2.14 | 2.14 | 2.14 | 2.14 | 2.26 | 2.26 | 2.27 | 2.27 | 2.27 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.54 | 2.54 | 2.55 | 2.55 | 2.55 | |
| 47°F(8.3°C) | TC | 29620 | 29660 | 29692 | 29693 | 29733 | 31405 | 31443 | 31474 | 31480 | 31517 | 33282 | 33325 | 33362 | 33368 | 33406 | 35287 | 35325 | 35364 | 35369 | 35413 | |
| | S/T | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | |
| | PI | 2.14 | 2.14 | 2.15 | 2.15 | 2.15 | 2.27 | 2.27 | 2.28 | 2.28 | 2.28 | 2.41 | 2.41 | 2.41 | 2.41 | 2.42 | 2.55 | 2.55 | 2.56 | 2.56 | 2.56 | |
| 50°F(10.0°C) | TC | 29865 | 29905 | 29937 | 29938 | 29979 | 31664 | 31702 | 31733 | 31740 | 31777 | 33556 | 33600 | 33637 | 33644 | 33681 | 35578 | 35617 | 35656 | 35661 | 35705 | |
| | S/T | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.57 | 0.57 | 0.65 | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | |
| | PI | 2.15 | 2.15 | 2.16 | 2.16 | 2.16 | 2.28 | 2.28 | 2.29 | 2.29 | 2.29 | 2.42 | 2.42 | 2.42 | 2.42 | 2.43 | 2.56 | 2.56 | 2.57 | 2.57 | 2.57 | |
| 59°F(15.0°C) | TC | 30109 | 30150 | 30182 | 30183 | 30224 | 31924 | 31961 | 31993 | 31999 | 32037 | 33831 | 33875 | 33912 | 33919 | 33957 | 35869 | 35908 | 35947 | 35953 | 35998 | |
| | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | |
| | PI | 2.16 | 2.16 | 2.16 | 2.17 | 2.17 | 2.29 | 2.29 | 2.29 | 2.30 | 2.30 | 2.43 | 2.43 | 2.43 | 2.43 | 2.44 | 2.57 | 2.58 | 2.58 | 2.58 | 2.58 | |
| 68°F(20.0°C) | TC | 29581 | 29621 | 29653 | 29654 | 29694 | 31364 | 31401 | 31432 | 31438 | 31476 | 33238 | 33281 | 33318 | 33324 | 33362 | 35241 | 35279 | 35317 | 35323 | 35367 | |
| | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | |
| | PI | 2.25 | 2.26 | 2.26 | 2.26 | 2.26 | 2.39 | 2.39 | 2.40 | 2.40 | 2.40 | 2.53 | 2.54 | 2.54 | 2.54 | 2.54 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | |
| 77°F(25.0°C) | TC | 28322 | 28360 | 28391 | 28392 | 28430 | 30029 | 30065 | 30094 | 30100 | 30136 | 31823 | 31864 | 31900 | 31906 | 31941 | 33740 | 33777 | 33814 | 33819 | 33861 | |
| | S/T | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | PI | 2.44 | 2.45 | 2.45 | 2.45 | 2.45 | 2.59 | 2.59 | 2.60 | 2.60 | 2.60 | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.91 | 2.91 | 2.92 | 2.92 | 2.92 | |
| 82°F(27.8°C) | TC | 25489 | 25523 | 25551 | 25552 | 25586 | 27025 | 27057 | 27084 | 27089 | 27121 | 28639 | 28677 | 28709 | 28714 | 28746 | 30365 | 30398 | 30431 | 30436 | 30474 | |
| | S/T | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | PI | 2.87 | 2.87 | 2.88 | 2.88 | 2.88 | 3.04 | 3.05 | 3.05 | 3.05 | 3.05 | 3.22 | 3.23 | 3.23 | 3.23 | 3.24 | 3.42 | 3.42 | 3.43 | 3.43 | 3.43 | |
| 86°F(30.0°C) | TC | 19727 | 19754 | 19775 | 19776 | 19803 | 20916 | 20941 | 20961 | 20966 | 20991 | 22166 | 22194 | 22219 | 22223 | 22248 | 23501 | 23527 | 23552 | 23556 | 23585 | |
| | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.60 | 0.69 | 0.69 | 0.78 | |
| | PI | 2.36 | 2.36 | 2.37 | 2.37 | 2.37 | 2.50 | 2.51 | 2.51 | 2.51 | 2.51 | 2.65 | 2.66 | 2.66 | 2.66 | 2.66 | 2.81 | 2.82 | 2.82 | 2.82 | 2.82 | |

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

Table 5 – 36K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 859 | 95°F(35.0°C) | TC | 16270 | 16292 | 16310 | 16310 | 16332 | 17251 | 17271 | 17288 | 17292 | 17312 | 18281 | 18305 | 18325 | 18329 | 18349 | 19383 | 19404 | 19425 | 19428 | 19452 | |
| | | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | |
| | | PI | 2.06 | 2.06 | 2.06 | 2.06 | 2.06 | 2.18 | 2.18 | 2.19 | 2.19 | 2.19 | 2.31 | 2.31 | 2.32 | 2.32 | 2.32 | 2.45 | 2.45 | 2.46 | 2.46 | 2.46 | |
| | 104°F(40.0°C) | TC | 15252 | 15273 | 15289 | 15290 | 15311 | 16171 | 16191 | 16207 | 16210 | 16229 | 17138 | 17160 | 17179 | 17182 | 17201 | 18170 | 18190 | 18210 | 18213 | 18235 | |
| | | S/T | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | |
| | | PI | 2.04 | 2.04 | 2.04 | 2.04 | 2.05 | 2.16 | 2.16 | 2.16 | 2.17 | 2.17 | 2.29 | 2.29 | 2.29 | 2.30 | 2.30 | 2.43 | 2.43 | 2.43 | 2.43 | 2.44 | |
| | 110°F(43.0°C) | TC | 13895 | 13914 | 13929 | 13929 | 13948 | 14732 | 14750 | 14764 | 14767 | 14785 | 15613 | 15633 | 15650 | 15653 | 15671 | 16553 | 16571 | 16589 | 16592 | 16613 | |
| | | S/T | 0.46 | 0.54 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | |
| | | PI | 2.01 | 2.01 | 2.02 | 2.02 | 2.02 | 2.13 | 2.14 | 2.14 | 2.14 | 2.14 | 2.26 | 2.26 | 2.27 | 2.27 | 2.27 | 2.40 | 2.40 | 2.40 | 2.40 | 2.41 | |
| | 115°F(46.0°C) | TC | 26702 | 26738 | 26767 | 26768 | 26805 | 28312 | 28345 | 28373 | 28379 | 28413 | 30003 | 30042 | 30076 | 30081 | 30115 | 31811 | 31846 | 31880 | 31885 | 31925 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | |
| | | PI | 2.43 | 2.43 | 2.44 | 2.44 | 2.44 | 2.58 | 2.58 | 2.58 | 2.58 | 2.59 | 2.73 | 2.73 | 2.74 | 2.74 | 2.74 | 2.90 | 2.90 | 2.90 | 2.90 | 2.91 | |
| | 122°F(50.0°C) | TC | 28757 | 28795 | 28826 | 28828 | 28866 | 30490 | 30526 | 30556 | 30562 | 30598 | 32311 | 32353 | 32389 | 32395 | 32431 | 34258 | 34295 | 34332 | 34338 | 34381 | |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | |
| | | PI | 2.62 | 2.62 | 2.62 | 2.62 | 2.63 | 2.78 | 2.78 | 2.78 | 2.78 | 2.78 | 2.94 | 2.94 | 2.95 | 2.95 | 2.95 | 3.12 | 3.12 | 3.12 | 3.13 | 3.13 | |
| | 1069 | -22°F(-3.0°C) | TC | 29669 | 29709 | 29741 | 29743 | 29783 | 31457 | 31495 | 31526 | 31532 | 31569 | 33337 | 33380 | 33417 | 33424 | 33461 | 35345 | 35384 | 35422 | 35428 | 35472 |
| | | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 |
| | | | PI | 2.70 | 2.70 | 2.71 | 2.71 | 2.71 | 2.86 | 2.87 | 2.87 | 2.87 | 2.87 | 3.03 | 3.04 | 3.04 | 3.04 | 3.05 | 3.22 | 3.22 | 3.22 | 3.22 | 3.23 |
| -13°F(-2.5°C) | | TC | 30811 | 30852 | 30885 | 30887 | 30928 | 32667 | 32706 | 32738 | 32745 | 32784 | 34619 | 34664 | 34703 | 34709 | 34748 | 36705 | 36745 | 36785 | 36791 | 36836 | |
| | | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | |
| | | PI | 2.80 | 2.81 | 2.81 | 2.81 | 2.81 | 2.97 | 2.98 | 2.98 | 2.98 | 2.98 | 3.15 | 3.15 | 3.16 | 3.16 | 3.16 | 3.34 | 3.34 | 3.35 | 3.35 | 3.35 | |
| -4°F(-20.0°C) | | TC | 31139 | 31181 | 31215 | 31216 | 31258 | 33016 | 33055 | 33087 | 33094 | 33133 | 34988 | 35034 | 35073 | 35079 | 35118 | 37096 | 37137 | 37177 | 37183 | 37229 | |
| | | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.60 | 0.69 | 0.69 | 0.78 | |
| | | PI | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.88 | 2.89 | 2.89 | 2.89 | 2.89 | 3.05 | 3.06 | 3.06 | 3.06 | 3.07 | 3.24 | 3.24 | 3.25 | 3.25 | 3.25 | |
| 0°F(-17.8°C) | | TC | 31249 | 31291 | 31324 | 31326 | 31368 | 33132 | 33171 | 33204 | 33210 | 33250 | 35111 | 35157 | 35196 | 35203 | 35242 | 37227 | 37267 | 37308 | 37314 | 37360 | |
| | | S/T | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | |
| | | PI | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 | 2.85 | 2.85 | 2.86 | 2.86 | 2.86 | 3.02 | 3.03 | 3.03 | 3.03 | 3.03 | 3.20 | 3.21 | 3.21 | 3.21 | 3.22 | |
| 5°F(-15.0°C) | | TC | 31661 | 31704 | 31738 | 31740 | 31782 | 33570 | 33609 | 33642 | 33649 | 33689 | 35575 | 35621 | 35661 | 35668 | 35707 | 37719 | 37760 | 37801 | 37807 | 37854 | |
| | | S/T | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | |
| | | PI | 2.56 | 2.56 | 2.56 | 2.56 | 2.57 | 2.71 | 2.71 | 2.72 | 2.72 | 2.72 | 2.87 | 2.88 | 2.88 | 2.88 | 2.88 | 3.05 | 3.05 | 3.05 | 3.05 | 3.06 | |
| 14°F(-1.0°C) | | TC | 32487 | 32531 | 32566 | 32567 | 32611 | 34445 | 34486 | 34520 | 34527 | 34568 | 36503 | 36550 | 36591 | 36598 | 36639 | 38702 | 38744 | 38787 | 38793 | 38841 | |
| | | S/T | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | 0.46 | 0.55 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | |
| | | PI | 2.29 | 2.30 | 2.30 | 2.30 | 2.30 | 2.43 | 2.43 | 2.44 | 2.44 | 2.44 | 2.58 | 2.58 | 2.58 | 2.58 | 2.59 | 2.73 | 2.73 | 2.74 | 2.74 | 2.74 | |
| 17°F(-8.3°C) | TC | 32716 | 32760 | 32795 | 32797 | 32841 | 34688 | 34729 | 34763 | 34770 | 34811 | 36760 | 36808 | 36849 | 36856 | 36897 | 38975 | 39017 | 39060 | 39066 | 39114 | | |
| | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | | |
| | PI | 2.34 | 2.35 | 2.35 | 2.35 | 2.35 | 2.49 | 2.49 | 2.49 | 2.49 | 2.49 | 2.63 | 2.64 | 2.64 | 2.64 | 2.64 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | | |
| 23°F(-5.0°C) | TC | 32945 | 32989 | 33024 | 33026 | 33070 | 34930 | 34971 | 35006 | 35013 | 35054 | 37017 | 37065 | 37106 | 37113 | 37154 | 39247 | 39290 | 39333 | 39339 | 39388 | | |
| | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.62 | 0.70 | 0.70 | 0.80 | | |
| | PI | 2.39 | 2.40 | 2.40 | 2.40 | 2.40 | 2.54 | 2.54 | 2.54 | 2.54 | 2.55 | 2.69 | 2.69 | 2.70 | 2.70 | 2.70 | 2.85 | 2.86 | 2.86 | 2.86 | 2.86 | | |
| 35°F(1.7°C) | TC | 33036 | 33081 | 33116 | 33118 | 33162 | 35027 | 35069 | 35103 | 35110 | 35152 | 37120 | 37168 | 37209 | 37216 | 37258 | 39356 | 39399 | 39442 | 39448 | 39497 | | |
| | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | | |
| | PI | 2.40 | 2.40 | 2.40 | 2.40 | 2.41 | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 | 2.69 | 2.70 | 2.70 | 2.70 | 2.70 | 2.86 | 2.86 | 2.86 | 2.86 | 2.87 | | |
| 41°F(5.0°C) | TC | 33311 | 33356 | 33392 | 33393 | 33438 | 35318 | 35360 | 35395 | 35402 | 35444 | 37428 | 37477 | 37519 | 37526 | 37568 | 39684 | 39727 | 39770 | 39776 | 39826 | | |
| | S/T | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | | |
| | PI | 2.41 | 2.41 | 2.41 | 2.41 | 2.42 | 2.55 | 2.56 | 2.56 | 2.56 | 2.56 | 2.71 | 2.71 | 2.71 | 2.71 | 2.72 | 2.87 | 2.87 | 2.88 | 2.88 | 2.88 | | |
| 47°F(8.3°C) | TC | 33586 | 33631 | 33667 | 33669 | 33714 | 35610 | 35652 | 35687 | 35694 | 35737 | 37737 | 37786 | 37828 | 37835 | 37878 | 40011 | 40054 | 40098 | 40104 | 40154 | | |
| | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 | | |
| | PI | 2.42 | 2.42 | 2.42 | 2.42 | 2.43 | 2.56 | 2.57 | 2.57 | 2.57 | 2.57 | 2.72 | 2.72 | 2.72 | 2.72 | 2.73 | 2.88 | 2.88 | 2.89 | 2.89 | 2.89 | | |
| 50°F(10.0°C) | TC | 33860 | 33906 | 33943 | 33944 | 33990 | 35901 | 35944 | 35979 | 35986 | 36029 | 38046 | 38095 | 38138 | 38145 | 38187 | 40338 | 40382 | 40426 | 40432 | 40483 | | |
| | S/T | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | | |
| | PI | 2.43 | 2.43 | 2.43 | 2.43 | 2.44 | 2.58 | 2.58 | 2.58 | 2.58 | 2.58 | 2.73 | 2.73 | 2.74 | 2.74 | 2.74 | 2.89 | 2.90 | 2.90 | 2.90 | 2.90 | | |

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

Table 5 – 36K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1069 | 59°F(15.0°C) | TC | 33267 | 33312 | 33348 | 33349 | 33394 | 35272 | 35314 | 35349 | 35356 | 35397 | 37379 | 37428 | 37469 | 37476 | 37518 | 39631 | 39674 | 39718 | 39724 | 39773 |
| | | S/T | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.74 | 0.74 | 0.85 |
| | | PI | 2.54 | 2.54 | 2.54 | 2.54 | 2.55 | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.85 | 2.85 | 2.86 | 2.86 | 2.86 | 3.02 | 3.02 | 3.03 | 3.03 | 3.03 |
| | 68°F(20.0°C) | TC | 31851 | 31894 | 31928 | 31930 | 31973 | 33770 | 33810 | 33844 | 33850 | 33891 | 35788 | 35834 | 35874 | 35881 | 35921 | 37944 | 37986 | 38027 | 38033 | 38080 |
| | | S/T | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 |
| | | PI | 2.75 | 2.75 | 2.75 | 2.75 | 2.76 | 2.91 | 2.92 | 2.92 | 2.92 | 2.92 | 3.09 | 3.09 | 3.10 | 3.10 | 3.10 | 3.27 | 3.28 | 3.28 | 3.28 | 3.29 |
| | 77°F(25.0°C) | TC | 28665 | 28703 | 28734 | 28735 | 28774 | 30392 | 30428 | 30458 | 30464 | 30500 | 32208 | 32250 | 32286 | 32292 | 32328 | 34148 | 34186 | 34223 | 34228 | 34271 |
| | | S/T | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 |
| | | PI | 3.23 | 3.23 | 3.23 | 3.23 | 3.24 | 3.42 | 3.42 | 3.43 | 3.43 | 3.43 | 3.63 | 3.63 | 3.63 | 3.63 | 3.64 | 3.84 | 3.85 | 3.85 | 3.85 | 3.86 |
| | 82°F(27.8°C) | TC | 22185 | 22215 | 22239 | 22240 | 22270 | 23522 | 23550 | 23573 | 23578 | 23606 | 24927 | 24960 | 24988 | 24992 | 25020 | 26429 | 26458 | 26487 | 26491 | 26524 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 2.66 | 2.66 | 2.66 | 2.66 | 2.67 | 2.82 | 2.82 | 2.82 | 2.82 | 2.83 | 2.98 | 2.99 | 2.99 | 2.99 | 2.99 | 3.16 | 3.17 | 3.17 | 3.17 | 3.17 |
| | 86°F(30.0°C) | TC | 18297 | 18322 | 18342 | 18343 | 18367 | 19400 | 19423 | 19442 | 19446 | 19469 | 20559 | 20586 | 20609 | 20613 | 20636 | 21798 | 21822 | 21845 | 21849 | 21876 |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.91 |
| | | PI | 2.31 | 2.32 | 2.32 | 2.32 | 2.32 | 2.45 | 2.46 | 2.46 | 2.46 | 2.46 | 2.60 | 2.60 | 2.61 | 2.61 | 2.61 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 |
| | 95°F(35.0°C) | TC | 17153 | 17176 | 17194 | 17195 | 17218 | 18186 | 18208 | 18226 | 18229 | 18251 | 19273 | 19298 | 19319 | 19323 | 19345 | 20434 | 20456 | 20479 | 20482 | 20507 |
| | | S/T | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 |
| | | PI | 2.29 | 2.29 | 2.30 | 2.30 | 2.30 | 2.43 | 2.43 | 2.43 | 2.44 | 2.44 | 2.57 | 2.58 | 2.58 | 2.58 | 2.58 | 2.73 | 2.73 | 2.74 | 2.74 | 2.74 |
| | 104°F(40.0°C) | TC | 15626 | 15647 | 15664 | 15665 | 15686 | 16568 | 16588 | 16604 | 16607 | 16627 | 17558 | 17581 | 17600 | 17604 | 17623 | 18616 | 18636 | 18656 | 18659 | 18682 |
| | | S/T | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 |
| | | PI | 2.26 | 2.27 | 2.27 | 2.27 | 2.27 | 2.40 | 2.40 | 2.40 | 2.40 | 2.41 | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 |
| | 110°F(43.0°C) | TC | 30030 | 30070 | 30102 | 30104 | 30144 | 31839 | 31877 | 31908 | 31915 | 31953 | 33741 | 33785 | 33823 | 33829 | 33867 | 35774 | 35813 | 35852 | 35858 | 35903 |
| | | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 |
| | | PI | 2.73 | 2.74 | 2.74 | 2.74 | 2.74 | 2.90 | 2.90 | 2.90 | 2.90 | 2.91 | 3.07 | 3.07 | 3.08 | 3.08 | 3.08 | 3.26 | 3.26 | 3.26 | 3.26 | 3.27 |
| 115°F(46.0°C) | TC | 32339 | 32383 | 32418 | 32419 | 32463 | 34288 | 34329 | 34363 | 34370 | 34411 | 36337 | 36384 | 36425 | 36431 | 36472 | 38526 | 38568 | 38610 | 38616 | 38664 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | |
| | PI | 2.94 | 2.95 | 2.95 | 2.95 | 2.95 | 3.12 | 3.12 | 3.13 | 3.13 | 3.13 | 3.31 | 3.31 | 3.32 | 3.32 | 3.32 | 3.51 | 3.51 | 3.51 | 3.51 | 3.52 | |
| 122°F(50.0°C) | TC | 33366 | 33411 | 33447 | 33448 | 33494 | 35377 | 35419 | 35454 | 35461 | 35503 | 37490 | 37539 | 37581 | 37588 | 37630 | 39749 | 39793 | 39836 | 39842 | 39892 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 3.04 | 3.04 | 3.04 | 3.04 | 3.05 | 3.22 | 3.22 | 3.23 | 3.23 | 3.23 | 3.41 | 3.42 | 3.42 | 3.42 | 3.42 | 3.62 | 3.62 | 3.63 | 3.63 | 3.63 | |
| -22°F(-30.0°C) | TC | 34649 | 34696 | 34733 | 34735 | 34782 | 36738 | 36781 | 36817 | 36825 | 36868 | 38932 | 38983 | 39026 | 39034 | 39077 | 41278 | 41323 | 41368 | 41374 | 41426 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 3.15 | 3.16 | 3.16 | 3.16 | 3.17 | 3.34 | 3.35 | 3.35 | 3.35 | 3.36 | 3.54 | 3.55 | 3.55 | 3.55 | 3.56 | 3.76 | 3.76 | 3.77 | 3.77 | 3.77 | |
| -13°F(-25.0°C) | TC | 35019 | 35066 | 35104 | 35105 | 35153 | 37129 | 37173 | 37210 | 37217 | 37261 | 39348 | 39399 | 39443 | 39450 | 39494 | 41718 | 41764 | 41809 | 41816 | 41868 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 3.06 | 3.06 | 3.06 | 3.06 | 3.07 | 3.24 | 3.24 | 3.25 | 3.25 | 3.25 | 3.43 | 3.44 | 3.44 | 3.44 | 3.45 | 3.64 | 3.65 | 3.65 | 3.65 | 3.65 | |
| -4°F(-20.0°C) | TC | 35142 | 35189 | 35227 | 35229 | 35276 | 37260 | 37304 | 37341 | 37348 | 37393 | 39486 | 39537 | 39581 | 39589 | 39633 | 41865 | 41911 | 41956 | 41963 | 42015 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.78 | 0.78 | 0.88 | |
| | PI | 3.02 | 3.03 | 3.03 | 3.03 | 3.04 | 3.21 | 3.21 | 3.21 | 3.21 | 3.22 | 3.40 | 3.40 | 3.41 | 3.41 | 3.41 | 3.60 | 3.61 | 3.61 | 3.61 | 3.62 | |
| 0°F(-17.8°C) | TC | 35606 | 35654 | 35693 | 35694 | 35742 | 37752 | 37797 | 37834 | 37842 | 37887 | 40008 | 40060 | 40104 | 40112 | 40156 | 42418 | 42464 | 42510 | 42517 | 42570 | |
| | S/T | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.58 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 2.88 | 2.88 | 2.88 | 2.88 | 2.89 | 3.05 | 3.05 | 3.06 | 3.06 | 3.06 | 3.23 | 3.24 | 3.24 | 3.24 | 3.24 | 3.43 | 3.43 | 3.43 | 3.43 | 3.44 | |
| 5°F(-15.0°C) | TC | 36535 | 36584 | 36624 | 36625 | 36675 | 38737 | 38783 | 38821 | 38829 | 38875 | 41051 | 41104 | 41150 | 41158 | 41204 | 43524 | 43572 | 43619 | 43626 | 43680 | |
| | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 2.58 | 2.58 | 2.58 | 2.59 | 2.59 | 2.73 | 2.74 | 2.74 | 2.74 | 2.74 | 2.90 | 2.90 | 2.90 | 2.90 | 2.91 | 3.07 | 3.08 | 3.08 | 3.08 | 3.08 | |
| 14°F(-10.0°C) | TC | 36792 | 36842 | 36881 | 36883 | 36933 | 39009 | 39056 | 39094 | 39102 | 39148 | 41340 | 41394 | 41440 | 41448 | 41494 | 43831 | 43878 | 43926 | 43933 | 43988 | |
| | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 2.64 | 2.64 | 2.64 | 2.64 | 2.65 | 2.79 | 2.80 | 2.80 | 2.80 | 2.80 | 2.96 | 2.97 | 2.97 | 2.97 | 2.97 | 3.14 | 3.14 | 3.15 | 3.15 | 3.15 | |
| 17°F(-8.3°C) | TC | 37049 | 37099 | 37139 | 37141 | 37191 | 39282 | 39329 | 39367 | 39375 | 39422 | 41629 | 41683 | 41729 | 41737 | 41784 | 44137 | 44185 | 44233 | 44240 | 44295 | |
| | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.85 | 0.59 | 0.69 | 0.79 | 0.79 | 0.90 | |
| | PI | 2.69 | 2.70 | 2.70 | 2.70 | 2.70 | 2.86 | 2.86 | 2.86 | 2.86 | 2.87 | 3.03 | 3.03 | 3.03 | 3.03 | 3.04 | 3.21 | 3.21 | 3.22 | 3.22 | 3.22 | |

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

Table 5 – 36K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1226 | 23°F(-5.0°C) | TC | 37152 | 37202 | 37242 | 37244 | 37294 | 39391 | 39438 | 39477 | 39485 | 39532 | 41745 | 41799 | 41845 | 41853 | 41900 | 44260 | 44308 | 44356 | 44363 | 44418 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 |
| | | PI | 2.70 | 2.70 | 2.70 | 2.70 | 2.71 | 2.86 | 2.86 | 2.87 | 2.87 | 2.87 | 3.03 | 3.03 | 3.04 | 3.04 | 3.04 | 3.04 | 3.21 | 3.22 | 3.22 | 3.22 |
| | 35°F(1.7°C) | TC | 37461 | 37512 | 37552 | 37554 | 37604 | 39719 | 39766 | 39805 | 39813 | 39860 | 42092 | 42147 | 42194 | 42201 | 42248 | 44628 | 44677 | 44725 | 44732 | 44788 |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 |
| | | PI | 2.71 | 2.71 | 2.71 | 2.71 | 2.72 | 2.87 | 2.87 | 2.88 | 2.88 | 2.88 | 3.04 | 3.05 | 3.05 | 3.05 | 3.05 | 3.23 | 3.23 | 3.23 | 3.23 | 3.24 |
| | 41°F(5.0°C) | TC | 37770 | 37821 | 37862 | 37864 | 37915 | 40047 | 40094 | 40134 | 40141 | 40189 | 42439 | 42494 | 42542 | 42549 | 42597 | 44996 | 45045 | 45094 | 45101 | 45157 |
| | | S/T | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.61 | 0.72 | 0.82 | 0.82 | 0.93 |
| | | PI | 2.72 | 2.72 | 2.73 | 2.73 | 2.73 | 2.88 | 2.89 | 2.89 | 2.89 | 2.89 | 3.06 | 3.06 | 3.06 | 3.06 | 3.07 | 3.24 | 3.24 | 3.25 | 3.25 | 3.25 |
| | 47°F(8.3°C) | TC | 38079 | 38131 | 38172 | 38173 | 38225 | 40374 | 40422 | 40462 | 40470 | 40518 | 42786 | 42842 | 42890 | 42898 | 42945 | 45364 | 45414 | 45463 | 45470 | 45527 |
| | | S/T | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.94 |
| | | PI | 2.73 | 2.74 | 2.74 | 2.74 | 2.74 | 2.90 | 2.90 | 2.90 | 2.90 | 2.91 | 3.07 | 3.07 | 3.08 | 3.08 | 3.08 | 3.25 | 3.26 | 3.26 | 3.26 | 3.27 |
| | 50°F(10.0°C) | TC | 37412 | 37462 | 37503 | 37504 | 37555 | 39667 | 39714 | 39753 | 39761 | 39808 | 42036 | 42091 | 42138 | 42146 | 42193 | 44569 | 44618 | 44666 | 44673 | 44729 |
| | | S/T | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | 0.63 | 0.74 | 0.84 | 0.84 | 0.95 |
| | | PI | 2.85 | 2.86 | 2.86 | 2.86 | 2.86 | 3.02 | 3.03 | 3.03 | 3.03 | 3.03 | 3.20 | 3.21 | 3.21 | 3.21 | 3.22 | 3.40 | 3.40 | 3.40 | 3.40 | 3.41 |
| | 59°F(15.0°C) | TC | 35819 | 35868 | 35906 | 35908 | 35956 | 37978 | 38023 | 38061 | 38068 | 38113 | 40247 | 40299 | 40344 | 40352 | 40397 | 42672 | 42718 | 42765 | 42772 | 42825 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 3.09 | 3.09 | 3.10 | 3.10 | 3.10 | 3.28 | 3.28 | 3.28 | 3.28 | 3.29 | 3.47 | 3.48 | 3.48 | 3.48 | 3.49 | 3.68 | 3.69 | 3.69 | 3.69 | 3.69 |
| | 68°F(20.0°C) | TC | 32236 | 32279 | 32314 | 32316 | 32359 | 34179 | 34219 | 34253 | 34260 | 34301 | 36221 | 36268 | 36308 | 36315 | 36356 | 38403 | 38445 | 38487 | 38493 | 38541 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 3.63 | 3.63 | 3.64 | 3.64 | 3.64 | 3.85 | 3.85 | 3.86 | 3.86 | 3.86 | 4.08 | 4.08 | 4.09 | 4.09 | 4.09 | 4.32 | 4.33 | 4.33 | 4.33 | 4.34 |
| | 77°F(25.0°C) | TC | 24949 | 24983 | 25010 | 25011 | 25045 | 26453 | 26484 | 26510 | 26516 | 26547 | 28033 | 28070 | 28101 | 28106 | 28138 | 29722 | 29755 | 29787 | 29792 | 29829 |
| | | S/T | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.62 | 0.72 | 0.82 | 0.82 | 0.93 | 0.65 | 0.76 | 0.87 | 0.87 | 0.99 |
| | | PI | 2.99 | 2.99 | 2.99 | 2.99 | 3.00 | 3.17 | 3.17 | 3.17 | 3.17 | 3.18 | 3.36 | 3.36 | 3.36 | 3.36 | 3.37 | 3.56 | 3.56 | 3.57 | 3.57 | 3.57 |
| 82°F(27.8°C) | TC | 20577 | 20605 | 20627 | 20628 | 20656 | 21817 | 21843 | 21865 | 21869 | 21895 | 23121 | 23151 | 23177 | 23181 | 23207 | 24514 | 24540 | 24567 | 24571 | 24602 | |
| | S/T | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | 0.68 | 0.79 | 0.90 | 0.90 | 1.00 | |
| | PI | 2.60 | 2.60 | 2.61 | 2.61 | 2.61 | 2.76 | 2.76 | 2.76 | 2.76 | 2.77 | 2.92 | 2.93 | 2.93 | 2.93 | 2.93 | 3.10 | 3.10 | 3.11 | 3.11 | 3.11 | |
| 86°F(30.0°C) | TC | 19290 | 19316 | 19337 | 19337 | 19363 | 20452 | 20476 | 20497 | 20501 | 20525 | 21674 | 21702 | 21727 | 21731 | 21755 | 22980 | 23005 | 23030 | 23034 | 23062 | |
| | S/T | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 | 0.65 | 0.76 | 0.86 | 0.86 | 0.98 | 0.68 | 0.80 | 0.91 | 0.91 | 1.00 | |
| | PI | 2.58 | 2.58 | 2.58 | 2.58 | 2.59 | 2.73 | 2.74 | 2.74 | 2.74 | 2.74 | 2.90 | 2.90 | 2.90 | 2.90 | 2.91 | 3.07 | 3.07 | 3.08 | 3.08 | 3.08 | |
| 95°F(35.0°C) | TC | 17573 | 17597 | 17616 | 17617 | 17640 | 18632 | 18654 | 18673 | 18677 | 18699 | 19745 | 19771 | 19793 | 19797 | 19819 | 20935 | 20958 | 20981 | 20984 | 21010 | |
| | S/T | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 | 0.66 | 0.77 | 0.88 | 0.88 | 1.00 | 0.70 | 0.82 | 0.93 | 0.93 | 1.00 | |
| | PI | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 | 2.70 | 2.70 | 2.70 | 2.70 | 2.71 | 2.86 | 2.86 | 2.87 | 2.87 | 2.87 | 3.03 | 3.03 | 3.04 | 3.04 | 3.04 | |
| 104°F(40.0°C) | TC | 21113 | 21142 | 21165 | 21166 | 21194 | 22386 | 22412 | 22434 | 22439 | 22466 | 23723 | 23754 | 23781 | 23785 | 23812 | 25153 | 25180 | 25207 | 25211 | 25243 | |
| | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.51 | 0.36 | 0.42 | 0.48 | 0.48 | 0.54 | 0.38 | 0.44 | 0.50 | 0.50 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | |
| | PI | 1.92 | 1.92 | 1.93 | 1.93 | 1.93 | 2.04 | 2.04 | 2.04 | 2.04 | 2.04 | 2.16 | 2.16 | 2.16 | 2.16 | 2.17 | 2.29 | 2.29 | 2.29 | 2.29 | 2.30 | |
| 110°F(43.0°C) | TC | 22738 | 22768 | 22793 | 22794 | 22824 | 24108 | 24136 | 24160 | 24165 | 24194 | 25548 | 25581 | 25610 | 25615 | 25643 | 27087 | 27117 | 27146 | 27151 | 27184 | |
| | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | |
| | PI | 2.07 | 2.07 | 2.07 | 2.07 | 2.08 | 2.19 | 2.20 | 2.20 | 2.20 | 2.20 | 2.33 | 2.33 | 2.33 | 2.33 | 2.33 | 2.47 | 2.47 | 2.47 | 2.47 | 2.47 | |
| 115°F(46.0°C) | TC | 23459 | 23491 | 23516 | 23517 | 23549 | 24873 | 24903 | 24927 | 24932 | 24962 | 26359 | 26393 | 26423 | 26428 | 26457 | 27947 | 27978 | 28008 | 28013 | 28047 | |
| | S/T | 0.34 | 0.40 | 0.45 | 0.45 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.62 | |
| | PI | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 2.26 | 2.27 | 2.27 | 2.27 | 2.27 | 2.40 | 2.40 | 2.40 | 2.41 | 2.41 | 2.54 | 2.55 | 2.55 | 2.55 | 2.55 | |
| 122°F(50.0°C) | TC | 24362 | 24394 | 24421 | 24422 | 24455 | 25830 | 25860 | 25886 | 25891 | 25922 | 27373 | 27409 | 27439 | 27444 | 27475 | 29022 | 29054 | 29085 | 29090 | 29126 | |
| | S/T | 0.34 | 0.40 | 0.46 | 0.46 | 0.52 | 0.36 | 0.42 | 0.48 | 0.48 | 0.55 | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | |
| | PI | 2.22 | 2.22 | 2.22 | 2.22 | 2.23 | 2.35 | 2.35 | 2.36 | 2.36 | 2.36 | 2.49 | 2.49 | 2.50 | 2.50 | 2.50 | 2.64 | 2.64 | 2.65 | 2.65 | 2.65 | |

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

Extrapolated Data

LEGEND

TC - Total Net Capacity (Btu/hour)
S/T: Sensible Cooling Capacity Ratio
PI: Power Input (kW)

COOLING PERFORMANCE 48K

Table 6 – 48K Cooling Performance

| AIRFLOW (CFM) | OUTDOOR DB °F(°C) | ID WB °F(°C) ID DB °F °C | 60.8°F(16.0°C) | | | | | 64.4°F(18.0°C) | | | | | 67°F(19.4°C) | | | | | 71.6°F(22.0°C) | | | | |
|------------------|----------------------|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | | | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C | 73.4°F 23.0°C | 77.0°F 25.0°C | 80.0°F 26.7°C | 80.6°F 27.0°C | 84.2°F 29.0°C |
| | | | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T | PI | TC | S/T |
| 825 | -22°F(-3.0°C) | TC | 31675 | 31718 | 31752 | 31753 | 31796 | 33584 | 33624 | 33657 | 33664 | 33704 | 35591 | 35637 | 35677 | 35683 | 35723 | 37735 | 37776 | 37817 | 37823 | 37870 |
| | | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 |
| | | PI | 3.04 | 3.04 | 3.04 | 3.04 | 3.05 | 3.22 | 3.22 | 3.23 | 3.23 | 3.23 | 3.41 | 3.42 | 3.42 | 3.42 | 3.42 | 3.62 | 3.62 | 3.62 | 3.62 | 3.63 |
| | -13°F(-2.5°C) | TC | 34112 | 34158 | 34195 | 34196 | 34242 | 36168 | 36210 | 36246 | 36253 | 36296 | 38328 | 38378 | 38421 | 38428 | 38471 | 40638 | 40682 | 40726 | 40733 | 40783 |
| | | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 |
| | | PI | 3.27 | 3.27 | 3.28 | 3.28 | 3.28 | 3.47 | 3.47 | 3.47 | 3.47 | 3.48 | 3.67 | 3.68 | 3.68 | 3.68 | 3.69 | 3.89 | 3.90 | 3.90 | 3.90 | 3.91 |
| | -4°F(-20.0°C) | TC | 35195 | 35242 | 35280 | 35282 | 35329 | 37316 | 37360 | 37397 | 37404 | 37449 | 39545 | 39597 | 39641 | 39648 | 39692 | 41928 | 41973 | 42019 | 42026 | 42078 |
| | | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 |
| | | PI | 3.37 | 3.38 | 3.38 | 3.38 | 3.39 | 3.58 | 3.58 | 3.58 | 3.58 | 3.59 | 3.79 | 3.79 | 3.80 | 3.80 | 3.80 | 4.02 | 4.02 | 4.03 | 4.03 | 4.03 |
| | 0°F(-17.8°C) | TC | 36548 | 36598 | 36637 | 36639 | 36688 | 38751 | 38797 | 38835 | 38843 | 38889 | 41066 | 41120 | 41165 | 41173 | 41219 | 43540 | 43588 | 43635 | 43642 | 43696 |
| | | S/T | 0.38 | 0.44 | 0.50 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 |
| | | PI | 3.50 | 3.51 | 3.51 | 3.51 | 3.52 | 3.71 | 3.72 | 3.72 | 3.72 | 3.73 | 3.94 | 3.94 | 3.94 | 3.95 | 3.95 | 4.17 | 4.18 | 4.18 | 4.18 | 4.19 |
| | 5°F(-15.0°C) | TC | 37498 | 37548 | 37589 | 37590 | 37641 | 39758 | 39805 | 39844 | 39852 | 39899 | 42133 | 42188 | 42235 | 42243 | 42290 | 44672 | 44720 | 44769 | 44776 | 44832 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 |
| | | PI | 3.39 | 3.40 | 3.40 | 3.40 | 3.40 | 3.60 | 3.60 | 3.60 | 3.60 | 3.61 | 3.81 | 3.81 | 3.82 | 3.82 | 3.82 | 4.04 | 4.04 | 4.05 | 4.05 | 4.05 |
| | 14°F(-1.0°C) | TC | 37814 | 37865 | 37906 | 37908 | 37959 | 40093 | 40141 | 40180 | 40188 | 40236 | 42489 | 42544 | 42591 | 42599 | 42647 | 45049 | 45098 | 45147 | 45154 | 45210 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 |
| | | PI | 3.35 | 3.36 | 3.36 | 3.36 | 3.37 | 3.56 | 3.56 | 3.56 | 3.56 | 3.57 | 3.77 | 3.77 | 3.78 | 3.78 | 3.78 | 4.00 | 4.00 | 4.00 | 4.00 | 4.01 |
| | 17°F(-8.3°C) | TC | 38154 | 38205 | 38247 | 38248 | 38300 | 40453 | 40501 | 40541 | 40549 | 40597 | 42870 | 42926 | 42974 | 42982 | 43030 | 45453 | 45503 | 45552 | 45559 | 45616 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.53 | 0.61 | 0.61 | 0.69 |
| | | PI | 3.25 | 3.25 | 3.26 | 3.26 | 3.26 | 3.45 | 3.45 | 3.45 | 3.45 | 3.46 | 3.65 | 3.66 | 3.66 | 3.66 | 3.67 | 3.87 | 3.88 | 3.88 | 3.88 | 3.89 |
| | 23°F(-5.0°C) | TC | 38834 | 38886 | 38928 | 38929 | 38982 | 41174 | 41223 | 41263 | 41271 | 41320 | 43634 | 43690 | 43739 | 43747 | 43796 | 46263 | 46313 | 46363 | 46371 | 46428 |
| | | S/T | 0.38 | 0.45 | 0.51 | 0.51 | 0.58 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 |
| | | PI | 3.04 | 3.05 | 3.05 | 3.05 | 3.05 | 3.23 | 3.23 | 3.23 | 3.23 | 3.24 | 3.42 | 3.42 | 3.43 | 3.43 | 3.43 | 3.62 | 3.63 | 3.63 | 3.63 | 3.64 |
| 35°F(1.7°C) | TC | 38632 | 38684 | 38726 | 38728 | 38780 | 40960 | 41009 | 41049 | 41057 | 41106 | 43407 | 43464 | 43512 | 43520 | 43569 | 46023 | 46073 | 46123 | 46130 | 46188 | |
| | S/T | 0.39 | 0.45 | 0.51 | 0.51 | 0.59 | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | |
| | PI | 3.39 | 3.40 | 3.40 | 3.40 | 3.41 | 3.60 | 3.60 | 3.61 | 3.61 | 3.61 | 3.81 | 3.82 | 3.82 | 3.82 | 3.83 | 4.04 | 4.05 | 4.05 | 4.05 | 4.06 | |
| 41°F(5.0°C) | TC | 38431 | 38482 | 38524 | 38526 | 38578 | 40747 | 40795 | 40835 | 40843 | 40892 | 43181 | 43237 | 43285 | 43293 | 43342 | 45783 | 45833 | 45883 | 45890 | 45947 | |
| | S/T | 0.39 | 0.45 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | |
| | PI | 3.74 | 3.75 | 3.75 | 3.75 | 3.76 | 3.97 | 3.97 | 3.98 | 3.98 | 3.98 | 4.21 | 4.21 | 4.22 | 4.22 | 4.22 | 4.46 | 4.46 | 4.47 | 4.47 | 4.48 | |
| 47°F(8.3°C) | TC | 39210 | 39263 | 39305 | 39307 | 39360 | 41573 | 41622 | 41663 | 41671 | 41721 | 44057 | 44114 | 44163 | 44171 | 44220 | 46711 | 46762 | 46813 | 46820 | 46878 | |
| | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | |
| | PI | 3.75 | 3.76 | 3.76 | 3.76 | 3.76 | 3.98 | 3.98 | 3.98 | 3.99 | 3.99 | 4.21 | 4.22 | 4.22 | 4.22 | 4.23 | 4.47 | 4.47 | 4.48 | 4.48 | 4.48 | |
| 50°F(10.0°C) | TC | 41547 | 41603 | 41648 | 41649 | 41706 | 44051 | 44103 | 44146 | 44155 | 44208 | 46683 | 46743 | 46795 | 46804 | 46856 | 49495 | 49549 | 49603 | 49611 | 49672 | |
| | S/T | 0.39 | 0.46 | 0.52 | 0.52 | 0.59 | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | 0.46 | 0.55 | 0.62 | 0.62 | 0.71 | |
| | PI | 3.77 | 3.77 | 3.78 | 3.78 | 3.78 | 4.00 | 4.00 | 4.01 | 4.01 | 4.01 | 4.24 | 4.24 | 4.25 | 4.25 | 4.25 | 4.49 | 4.50 | 4.50 | 4.50 | 4.51 | |
| 59°F(15.0°C) | TC | 43884 | 43943 | 43990 | 43992 | 44052 | 46529 | 46584 | 46630 | 46639 | 46694 | 49309 | 49373 | 49428 | 49437 | 49492 | 52279 | 52336 | 52393 | 52401 | 52467 | |
| | S/T | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | |
| | PI | 3.79 | 3.79 | 3.80 | 3.80 | 3.80 | 4.02 | 4.02 | 4.03 | 4.03 | 4.03 | 4.26 | 4.26 | 4.27 | 4.27 | 4.27 | 4.51 | 4.52 | 4.52 | 4.52 | 4.53 | |
| 68°F(20.0°C) | TC | 46221 | 46283 | 46333 | 46335 | 46398 | 49007 | 49065 | 49113 | 49123 | 49181 | 51935 | 52002 | 52060 | 52070 | 52128 | 55064 | 55124 | 55184 | 55192 | 55261 | |
| | S/T | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | |
| | PI | 3.81 | 3.81 | 3.82 | 3.82 | 3.82 | 4.04 | 4.04 | 4.05 | 4.05 | 4.05 | 4.28 | 4.28 | 4.29 | 4.29 | 4.29 | 4.54 | 4.54 | 4.55 | 4.55 | 4.55 | |
| 77°F(25.0°C) | TC | 45782 | 45843 | 45893 | 45895 | 45957 | 48541 | 48598 | 48646 | 48656 | 48714 | 51441 | 51508 | 51565 | 51575 | 51632 | 54540 | 54600 | 54659 | 54668 | 54736 | |
| | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | |
| | PI | 3.87 | 3.87 | 3.88 | 3.88 | 3.88 | 4.10 | 4.11 | 4.11 | 4.11 | 4.11 | 4.35 | 4.35 | 4.36 | 4.36 | 4.36 | 4.61 | 4.61 | 4.62 | 4.62 | 4.62 | |

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

Table 6 – 48K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|------------|---------------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 825 | 82°F(27.8°C) | TC | 43238 | 43296 | 43343 | 43344 | 43403 | 45843 | 45898 | 45943 | 45952 | 46007 | 48582 | 48645 | 48700 | 48709 | 48763 | 51510 | 51566 | 51622 | 51630 | 51694 |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | PI | 3.98 | 3.98 | 3.99 | 3.99 | 3.99 | 4.22 | 4.22 | 4.23 | 4.23 | 4.23 | 4.47 | 4.47 | 4.48 | 4.48 | 4.49 | 4.74 | 4.74 | 4.75 | 4.75 | 4.75 |
| | 86°F(30.0°C) | TC | 37513 | 37564 | 37604 | 37606 | 37657 | 39774 | 39821 | 39861 | 39869 | 39916 | 42150 | 42205 | 42252 | 42260 | 42307 | 44690 | 44739 | 44787 | 44794 | 44850 |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | PI | 4.22 | 4.23 | 4.23 | 4.23 | 4.24 | 4.48 | 4.48 | 4.49 | 4.49 | 4.49 | 4.75 | 4.75 | 4.76 | 4.76 | 4.76 | 5.03 | 5.04 | 5.04 | 5.04 | 5.05 |
| | 95°F(35.0°C) | TC | 33610 | 33655 | 33692 | 33693 | 33739 | 35636 | 35678 | 35713 | 35720 | 35763 | 37765 | 37814 | 37856 | 37863 | 37905 | 40040 | 40084 | 40127 | 40134 | 40184 |
| | | S/T | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 |
| | | PI | 3.85 | 3.85 | 3.86 | 3.86 | 3.86 | 4.08 | 4.08 | 4.09 | 4.09 | 4.09 | 4.32 | 4.33 | 4.33 | 4.33 | 4.34 | 4.58 | 4.59 | 4.59 | 4.59 | 4.60 |
| | 104°F(40.0°C) | TC | 31268 | 31310 | 31344 | 31345 | 31388 | 33153 | 33192 | 33225 | 33231 | 33271 | 35133 | 35179 | 35218 | 35225 | 35264 | 37250 | 37291 | 37331 | 37337 | 37384 |
| | | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 |
| | | PI | 3.62 | 3.63 | 3.63 | 3.63 | 3.63 | 3.84 | 3.84 | 3.85 | 3.85 | 3.85 | 4.07 | 4.07 | 4.08 | 4.08 | 4.08 | 4.31 | 4.32 | 4.32 | 4.32 | 4.33 |
| | 110°F(43.0°C) | TC | 26647 | 26683 | 26712 | 26713 | 26749 | 28253 | 28286 | 28314 | 28320 | 28354 | 29941 | 29980 | 30013 | 30019 | 30052 | 31745 | 31779 | 31814 | 31819 | 31859 |
| | | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 |
| | | PI | 3.13 | 3.13 | 3.14 | 3.14 | 3.14 | 3.32 | 3.32 | 3.32 | 3.33 | 3.33 | 3.52 | 3.52 | 3.52 | 3.52 | 3.53 | 3.73 | 3.73 | 3.74 | 3.74 | 3.74 |
| | 115°F(46.0°C) | TC | 20486 | 20513 | 20535 | 20536 | 20564 | 21720 | 21746 | 21767 | 21772 | 21797 | 23018 | 23048 | 23073 | 23078 | 23103 | 24405 | 24431 | 24458 | 24462 | 24492 |
| | | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 |
| | | PI | 2.47 | 2.48 | 2.48 | 2.48 | 2.48 | 2.62 | 2.62 | 2.63 | 2.63 | 2.63 | 2.78 | 2.78 | 2.78 | 2.79 | 2.79 | 2.95 | 2.95 | 2.95 | 2.95 | 2.96 |
| | 122°F(50.0°C) | TC | 34416 | 34462 | 34499 | 34501 | 34547 | 36490 | 36533 | 36569 | 36576 | 36620 | 38670 | 38720 | 38763 | 38770 | 38814 | 41000 | 41044 | 41089 | 41095 | 41147 |
| | | S/T | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 |
| | | PI | 3.30 | 3.30 | 3.31 | 3.31 | 3.31 | 3.50 | 3.50 | 3.50 | 3.51 | 3.51 | 3.71 | 3.71 | 3.71 | 3.72 | 3.72 | 3.93 | 3.93 | 3.94 | 3.94 | 3.94 |

Table 6 – 48K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|--------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1038 | -22°F(-3.0°C) | TC | 37063 | 37113 | 37153 | 37155 | 37205 | 39297 | 39343 | 39382 | 39390 | 39437 | 41644 | 41699 | 41745 | 41753 | 41799 | 44154 | 44202 | 44250 | 44257 | 44312 |
| | | S/T | 0.41 | 0.48 | 0.54 | 0.54 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 |
| | | PI | 3.55 | 3.56 | 3.56 | 3.56 | 3.57 | 3.77 | 3.77 | 3.77 | 3.77 | 3.78 | 3.99 | 4.00 | 4.00 | 4.00 | 4.01 | 4.23 | 4.24 | 4.24 | 4.24 | 4.25 |
| | -13°F(-25.0°C) | TC | 38240 | 38291 | 38332 | 38334 | 38386 | 40544 | 40592 | 40632 | 40640 | 40689 | 42966 | 43022 | 43070 | 43078 | 43126 | 45555 | 45605 | 45654 | 45662 | 45718 |
| | | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.62 | 0.43 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 |
| | | PI | 3.66 | 3.67 | 3.67 | 3.67 | 3.68 | 3.89 | 3.89 | 3.89 | 3.89 | 3.90 | 4.12 | 4.12 | 4.13 | 4.13 | 4.13 | 4.37 | 4.37 | 4.38 | 4.38 | 4.38 |
| | -4°F(-20.0°C) | TC | 39710 | 39764 | 39807 | 39808 | 39862 | 42104 | 42153 | 42195 | 42203 | 42254 | 44619 | 44677 | 44727 | 44735 | 44785 | 47307 | 47359 | 47410 | 47418 | 47477 |
| | | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.74 |
| | | PI | 3.81 | 3.81 | 3.81 | 3.81 | 3.82 | 4.03 | 4.04 | 4.04 | 4.04 | 4.05 | 4.28 | 4.28 | 4.29 | 4.29 | 4.29 | 4.53 | 4.54 | 4.54 | 4.54 | 4.55 |
| | 0°F(-17.8°C) | TC | 40742 | 40797 | 40841 | 40843 | 40898 | 43197 | 43248 | 43291 | 43300 | 43351 | 45778 | 45838 | 45889 | 45897 | 45948 | 48536 | 48589 | 48642 | 48650 | 48710 |
| | | S/T | 0.41 | 0.48 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 |
| | | PI | 3.68 | 3.69 | 3.69 | 3.69 | 3.70 | 3.91 | 3.91 | 3.91 | 3.92 | 3.92 | 4.14 | 4.15 | 4.15 | 4.15 | 4.16 | 4.39 | 4.39 | 4.40 | 4.40 | 4.40 |
| | 5°F(-15.0°C) | TC | 41086 | 41141 | 41185 | 41187 | 41243 | 43562 | 43613 | 43657 | 43665 | 43717 | 46164 | 46224 | 46276 | 46285 | 46336 | 48946 | 48999 | 49053 | 49060 | 49121 |
| | | S/T | 0.41 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.51 | 0.58 | 0.58 | 0.67 | 0.46 | 0.55 | 0.62 | 0.62 | 0.71 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | PI | 3.64 | 3.65 | 3.65 | 3.65 | 3.66 | 3.86 | 3.87 | 3.87 | 3.87 | 3.88 | 4.09 | 4.10 | 4.10 | 4.10 | 4.11 | 4.34 | 4.35 | 4.35 | 4.35 | 4.36 |
| | 14°F(-10.0°C) | TC | 41455 | 41511 | 41555 | 41557 | 41613 | 43953 | 44005 | 44049 | 44057 | 44110 | 46579 | 46640 | 46692 | 46700 | 46753 | 49386 | 49439 | 49493 | 49501 | 49563 |
| | | S/T | 0.42 | 0.49 | 0.55 | 0.55 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 |
| | | PI | 3.53 | 3.54 | 3.54 | 3.54 | 3.54 | 3.74 | 3.75 | 3.75 | 3.75 | 3.76 | 3.97 | 3.97 | 3.98 | 3.98 | 3.98 | 4.21 | 4.21 | 4.22 | 4.22 | 4.22 |
| | 17°F(-8.3°C) | TC | 42193 | 42250 | 42295 | 42297 | 42354 | 44736 | 44789 | 44833 | 44842 | 44895 | 47409 | 47470 | 47523 | 47532 | 47585 | 50265 | 50320 | 50375 | 50382 | 50445 |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.63 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 |
| | | PI | 3.31 | 3.31 | 3.31 | 3.31 | 3.32 | 3.51 | 3.51 | 3.51 | 3.51 | 3.52 | 3.71 | 3.72 | 3.72 | 3.72 | 3.73 | 3.94 | 3.94 | 3.95 | 3.95 | 3.95 |
| | 23°F(-5.0°C) | TC | 41974 | 42031 | 42076 | 42078 | 42135 | 44504 | 44557 | 44601 | 44610 | 44662 | 47163 | 47224 | 47277 | 47286 | 47338 | 50005 | 50059 | 50113 | 50121 | 50184 |
| | | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 |
| | | PI | 3.69 | 3.69 | 3.70 | 3.70 | 3.70 | 3.91 | 3.91 | 3.92 | 3.92 | 3.92 | 4.14 | 4.15 | 4.15 | 4.15 | 4.16 | 4.39 | 4.40 | 4.40 | 4.40 | 4.41 |
| 35°F(1.7°C) | TC | 41756 | 41812 | 41857 | 41859 | 41915 | 44272 | 44324 | 44368 | 44377 | 44430 | 46917 | 46978 | 47030 | 47039 | 47092 | 49744 | 49798 | 49852 | 49860 | 49922 | |
| | S/T | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | PI | 4.07 | 4.07 | 4.08 | 4.08 | 4.08 | 4.31 | 4.32 | 4.32 | 4.32 | 4.33 | 4.57 | 4.58 | 4.58 | 4.58 | 4.59 | 4.85 | 4.85 | 4.86 | 4.86 | 4.86 | |
| 41°F(5.0°C) | TC | 42602 | 42659 | 42705 | 42707 | 42765 | 45169 | 45223 | 45268 | 45277 | 45330 | 47868 | 47930 | 47984 | 47993 | 48046 | 50752 | 50807 | 50863 | 50871 | 50934 | |
| | S/T | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | |
| | PI | 4.07 | 4.08 | 4.08 | 4.08 | 4.09 | 4.32 | 4.33 | 4.33 | 4.33 | 4.34 | 4.58 | 4.58 | 4.59 | 4.59 | 4.60 | 4.85 | 4.86 | 4.86 | 4.87 | 4.87 | |
| 47°F(8.3°C) | TC | 45141 | 45202 | 45251 | 45253 | 45314 | 47862 | 47919 | 47966 | 47975 | 48032 | 50721 | 50787 | 50844 | 50853 | 50910 | 53777 | 53836 | 53894 | 53903 | 53970 | |
| | S/T | 0.42 | 0.50 | 0.57 | 0.57 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.72 | 0.51 | 0.59 | 0.67 | 0.67 | 0.77 | |
| | PI | 4.10 | 4.10 | 4.11 | 4.11 | 4.11 | 4.34 | 4.35 | 4.35 | 4.35 | 4.36 | 4.60 | 4.61 | 4.61 | 4.61 | 4.62 | 4.88 | 4.88 | 4.89 | 4.89 | 4.90 | |
| 50°F(10.0°C) | TC | 47681 | 47745 | 47796 | 47798 | 47863 | 50554 | 50614 | 50664 | 50674 | 50734 | 53575 | 53644 | 53704 | 53714 | 53774 | 56802 | 56864 | 56926 | 56935 | 57006 | |
| | S/T | 0.44 | 0.51 | 0.58 | 0.58 | 0.66 | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | |
| | PI | 4.12 | 4.12 | 4.13 | 4.13 | 4.13 | 4.36 | 4.37 | 4.37 | 4.37 | 4.38 | 4.62 | 4.63 | 4.64 | 4.64 | 4.64 | 4.90 | 4.91 | 4.91 | 4.92 | 4.92 | |
| 59°F(15.0°C) | TC | 50220 | 50288 | 50342 | 50344 | 50412 | 53247 | 53310 | 53362 | 53373 | 53436 | 56428 | 56501 | 56564 | 56575 | 56638 | 59828 | 59893 | 59958 | 59967 | 60042 | |
| | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | |
| | PI | 4.14 | 4.14 | 4.15 | 4.15 | 4.15 | 4.39 | 4.39 | 4.40 | 4.40 | 4.40 | 4.65 | 4.65 | 4.66 | 4.66 | 4.67 | 4.93 | 4.93 | 4.94 | 4.94 | 4.95 | |
| 68°F(20.0°C) | TC | 49743 | 49810 | 49863 | 49866 | 49933 | 52740 | 52803 | 52855 | 52866 | 52928 | 55891 | 55964 | 56026 | 56037 | 56099 | 59259 | 59323 | 59388 | 59397 | 59471 | |
| | S/T | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | |
| | PI | 4.20 | 4.21 | 4.21 | 4.21 | 4.22 | 4.46 | 4.46 | 4.46 | 4.47 | 4.47 | 4.72 | 4.73 | 4.73 | 4.73 | 4.74 | 5.01 | 5.01 | 5.02 | 5.02 | 5.02 | |
| 77°F(25.0°C) | TC | 46979 | 47042 | 47092 | 47094 | 47158 | 49810 | 49869 | 49918 | 49928 | 49987 | 52785 | 52854 | 52913 | 52923 | 52982 | 55966 | 56027 | 56088 | 56096 | 56166 | |
| | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | |
| | PI | 4.32 | 4.33 | 4.33 | 4.33 | 4.34 | 4.58 | 4.59 | 4.59 | 4.59 | 4.60 | 4.86 | 4.86 | 4.87 | 4.87 | 4.87 | 5.15 | 5.15 | 5.16 | 5.16 | 5.17 | |
| 82°F(27.8°C) | TC | 40759 | 40814 | 40858 | 40860 | 40915 | 43215 | 43266 | 43309 | 43318 | 43369 | 45797 | 45857 | 45908 | 45916 | 45968 | 48557 | 48609 | 48662 | 48670 | 48730 | |
| | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | |
| | PI | 4.59 | 4.60 | 4.60 | 4.60 | 4.61 | 4.87 | 4.87 | 4.88 | 4.88 | 4.88 | 5.16 | 5.16 | 5.17 | 5.17 | 5.18 | 5.47 | 5.47 | 5.48 | 5.48 | 5.49 | |
| 86°F(30.0°C) | TC | 36518 | 36567 | 36606 | 36608 | 36657 | 38719 | 38765 | 38803 | 38811 | 38857 | 41032 | 41085 | 41131 | 41139 | 41185 | 43504 | 43552 | 43599 | 43606 | 43660 | |
| | S/T | 0.46 | 0.54 | 0.62 | 0.62 | 0.70 | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | |
| | PI | 4.18 | 4.19 | 4.19 | 4.19 | 4.20 | 4.43 | 4.44 | 4.44 | 4.44 | 4.45 | 4.70 | 4.70 | 4.71 | 4.71 | 4.71 | 4.98 | 4.99 | 4.99 | 4.99 | 5.00 | |

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

Table 6 – 48K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1038 | 95°F(35.0°C) | TC | 33973 | 34019 | 34056 | 34057 | 34103 | 36021 | 36063 | 36099 | 36106 | 36149 | 38173 | 38222 | 38265 | 38272 | 38315 | 40473 | 40517 | 40561 | 40567 | 40618 | |
| | | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 | |
| | | PI | 3.93 | 3.94 | 3.94 | 3.94 | 3.95 | 4.17 | 4.18 | 4.18 | 4.18 | 4.19 | 4.42 | 4.43 | 4.43 | 4.43 | 4.44 | 4.69 | 4.69 | 4.70 | 4.70 | 4.70 | |
| | 104°F(40.0°C) | TC | 28952 | 28991 | 29023 | 29024 | 29063 | 30697 | 30734 | 30764 | 30770 | 30807 | 32531 | 32574 | 32610 | 32616 | 32652 | 34491 | 34529 | 34566 | 34572 | 34615 | |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | | PI | 3.40 | 3.40 | 3.41 | 3.41 | 3.41 | 3.60 | 3.61 | 3.61 | 3.61 | 3.62 | 3.82 | 3.82 | 3.83 | 3.83 | 3.83 | 4.05 | 4.05 | 4.06 | 4.06 | 4.06 | |
| | 110°F(43.0°C) | TC | 22258 | 22288 | 22312 | 22313 | 22343 | 23599 | 23627 | 23651 | 23655 | 23683 | 25009 | 25042 | 25070 | 25074 | 25102 | 26516 | 26545 | 26574 | 26578 | 26611 | |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | |
| | | PI | 2.69 | 2.69 | 2.69 | 2.69 | 2.70 | 2.85 | 2.85 | 2.85 | 2.85 | 2.86 | 3.02 | 3.02 | 3.03 | 3.03 | 3.03 | 3.20 | 3.20 | 3.21 | 3.21 | 3.21 | |
| | 115°F(46.0°C) | TC | 37393 | 37444 | 37484 | 37486 | 37536 | 39647 | 39694 | 39733 | 39741 | 39788 | 42015 | 42070 | 42117 | 42125 | 42172 | 44547 | 44595 | 44644 | 44651 | 44706 | |
| | | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.62 | 0.62 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | |
| | | PI | 3.58 | 3.59 | 3.59 | 3.59 | 3.60 | 3.80 | 3.80 | 3.81 | 3.81 | 3.81 | 4.03 | 4.03 | 4.04 | 4.04 | 4.04 | 4.27 | 4.27 | 4.28 | 4.28 | 4.28 | |
| | 122°F(50.0°C) | TC | 40270 | 40324 | 40367 | 40369 | 40423 | 42696 | 42747 | 42789 | 42798 | 42848 | 45247 | 45306 | 45357 | 45365 | 45416 | 47974 | 48026 | 48078 | 48085 | 48145 | |
| | | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.67 | 0.47 | 0.55 | 0.63 | 0.63 | 0.71 | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | |
| | | PI | 3.86 | 3.86 | 3.87 | 3.87 | 3.87 | 4.09 | 4.10 | 4.10 | 4.10 | 4.11 | 4.34 | 4.34 | 4.35 | 4.35 | 4.35 | 4.60 | 4.60 | 4.61 | 4.61 | 4.61 | |
| | 1324 | -22°F(-3.0°C) | TC | 41548 | 41604 | 41649 | 41651 | 41707 | 44052 | 44104 | 44148 | 44156 | 44209 | 46684 | 46744 | 46796 | 46805 | 46857 | 49497 | 49550 | 49604 | 49612 | 49674 |
| | | | S/T | 0.44 | 0.52 | 0.59 | 0.59 | 0.68 | 0.47 | 0.55 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 |
| | | | PI | 3.98 | 3.99 | 3.99 | 3.99 | 4.00 | 4.22 | 4.23 | 4.23 | 4.23 | 4.24 | 4.47 | 4.48 | 4.48 | 4.49 | 4.49 | 4.74 | 4.75 | 4.75 | 4.75 | 4.76 |
| | | -13°F(-25.0°C) | TC | 43146 | 43204 | 43251 | 43253 | 43311 | 45746 | 45800 | 45846 | 45855 | 45909 | 48479 | 48542 | 48596 | 48605 | 48660 | 51400 | 51456 | 51512 | 51520 | 51584 |
| | | | S/T | 0.45 | 0.52 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 |
| | | | PI | 4.13 | 4.14 | 4.14 | 4.14 | 4.15 | 4.38 | 4.39 | 4.39 | 4.39 | 4.40 | 4.65 | 4.65 | 4.66 | 4.66 | 4.66 | 4.93 | 4.93 | 4.94 | 4.94 | 4.94 |
| | | -4°F(-20.0°C) | TC | 44267 | 44326 | 44374 | 44376 | 44436 | 46935 | 46990 | 47037 | 47046 | 47102 | 49739 | 49803 | 49859 | 49868 | 49924 | 52736 | 52793 | 52850 | 52859 | 52924 |
| | | | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 |
| | | | PI | 4.00 | 4.01 | 4.01 | 4.01 | 4.02 | 4.24 | 4.25 | 4.25 | 4.25 | 4.26 | 4.50 | 4.50 | 4.51 | 4.51 | 4.51 | 4.77 | 4.77 | 4.78 | 4.78 | 4.79 |
| 0°F(-17.8°C) | | TC | 44640 | 44700 | 44749 | 44751 | 44811 | 47331 | 47387 | 47434 | 47443 | 47499 | 50158 | 50224 | 50280 | 50289 | 50345 | 53181 | 53238 | 53296 | 53305 | 53371 | |
| | | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | 0.48 | 0.56 | 0.64 | 0.64 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.54 | 0.63 | 0.71 | 0.71 | 0.81 | |
| | | PI | 3.96 | 3.96 | 3.97 | 3.97 | 3.97 | 4.20 | 4.20 | 4.21 | 4.21 | 4.21 | 4.45 | 4.45 | 4.46 | 4.46 | 4.47 | 4.72 | 4.72 | 4.73 | 4.73 | 4.73 | |
| 5°F(-15.0°C) | | TC | 45041 | 45102 | 45151 | 45153 | 45214 | 47756 | 47812 | 47860 | 47869 | 47926 | 50609 | 50675 | 50731 | 50741 | 50797 | 53658 | 53717 | 53775 | 53784 | 53851 | |
| | | S/T | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | |
| | | PI | 3.84 | 3.84 | 3.85 | 3.85 | 3.85 | 4.07 | 4.07 | 4.08 | 4.08 | 4.08 | 4.31 | 4.32 | 4.32 | 4.32 | 4.33 | 4.57 | 4.58 | 4.58 | 4.58 | 4.59 | |
| 14°F(-1.0°C) | | TC | 45844 | 45905 | 45955 | 45957 | 46019 | 48606 | 48664 | 48712 | 48722 | 48779 | 51510 | 51577 | 51635 | 51644 | 51702 | 54614 | 54673 | 54733 | 54741 | 54809 | |
| | | S/T | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | |
| | | PI | 3.59 | 3.60 | 3.60 | 3.60 | 3.61 | 3.81 | 3.81 | 3.82 | 3.82 | 3.82 | 4.04 | 4.04 | 4.05 | 4.05 | 4.05 | 4.28 | 4.28 | 4.29 | 4.29 | 4.29 | |
| 17°F(-8.3°C) | | TC | 45606 | 45667 | 45716 | 45718 | 45780 | 48354 | 48412 | 48459 | 48469 | 48526 | 51243 | 51310 | 51367 | 51376 | 51434 | 54331 | 54390 | 54449 | 54457 | 54525 | |
| | | S/T | 0.45 | 0.53 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.82 | |
| | | PI | 4.01 | 4.01 | 4.02 | 4.02 | 4.02 | 4.25 | 4.25 | 4.26 | 4.26 | 4.26 | 4.50 | 4.51 | 4.51 | 4.51 | 4.52 | 4.77 | 4.78 | 4.78 | 4.78 | 4.79 | |
| 23°F(-5.0°C) | | TC | 45368 | 45429 | 45478 | 45480 | 45541 | 48102 | 48159 | 48207 | 48216 | 48274 | 50976 | 51042 | 51099 | 51109 | 51166 | 54047 | 54106 | 54165 | 54174 | 54241 | |
| | | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.69 | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.83 | |
| | | PI | 4.42 | 4.43 | 4.43 | 4.43 | 4.44 | 4.69 | 4.69 | 4.70 | 4.70 | 4.70 | 4.97 | 4.97 | 4.98 | 4.98 | 4.98 | 5.27 | 5.27 | 5.28 | 5.28 | 5.28 | |
| 35°F(1.7°C) | TC | 46288 | 46350 | 46400 | 46402 | 46465 | 49077 | 49135 | 49184 | 49194 | 49252 | 52009 | 52077 | 52135 | 52145 | 52203 | 55143 | 55203 | 55263 | 55272 | 55341 | | |
| | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | | |
| | PI | 4.43 | 4.43 | 4.44 | 4.44 | 4.44 | 4.69 | 4.70 | 4.70 | 4.71 | 4.71 | 4.97 | 4.98 | 4.99 | 4.99 | 4.99 | 5.27 | 5.28 | 5.29 | 5.29 | 5.29 | | |
| 41°F(5.0°C) | TC | 49047 | 49113 | 49166 | 49168 | 49234 | 52003 | 52064 | 52116 | 52126 | 52188 | 55109 | 55181 | 55243 | 55253 | 55315 | 58430 | 58493 | 58557 | 58566 | 58639 | | |
| | S/T | 0.46 | 0.54 | 0.61 | 0.61 | 0.70 | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | | |
| | PI | 4.45 | 4.46 | 4.46 | 4.46 | 4.47 | 4.72 | 4.72 | 4.73 | 4.73 | 4.73 | 5.00 | 5.01 | 5.01 | 5.01 | 5.02 | 5.30 | 5.31 | 5.31 | 5.31 | 5.32 | | |
| 47°F(8.3°C) | TC | 51806 | 51876 | 51931 | 51934 | 52004 | 54928 | 54993 | 55047 | 55058 | 55124 | 58210 | 58285 | 58350 | 58361 | 58426 | 61717 | 61784 | 61851 | 61861 | 61938 | | |
| | S/T | 0.47 | 0.56 | 0.63 | 0.63 | 0.72 | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 | | |
| | PI | 4.47 | 4.48 | 4.48 | 4.48 | 4.49 | 4.74 | 4.75 | 4.75 | 4.75 | 4.76 | 5.03 | 5.03 | 5.04 | 5.04 | 5.04 | 5.33 | 5.33 | 5.34 | 5.34 | 5.35 | | |
| 50°F(10.0°C) | TC | 54565 | 54638 | 54697 | 54700 | 54773 | 57853 | 57922 | 57979 | 57990 | 58059 | 61310 | 61389 | 61458 | 61469 | 61538 | 65004 | 65074 | 65145 | 65155 | 65236 | | |
| | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 | | |
| | PI | 4.49 | 4.50 | 4.51 | 4.51 | 4.51 | 4.77 | 4.77 | 4.78 | 4.78 | 4.78 | 5.05 | 5.06 | 5.06 | 5.06 | 5.07 | 5.35 | 5.36 | 5.37 | 5.37 | 5.37 | | |

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

Table 6 – 48K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|----------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1324 | 59°F(15.0°C) | TC | 54046 | 54119 | 54177 | 54180 | 54253 | 57303 | 57371 | 57428 | 57439 | 57507 | 60727 | 60806 | 60874 | 60885 | 60953 | 64386 | 64456 | 64526 | 64536 | 64616 |
| | | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 |
| | | PI | 4.57 | 4.57 | 4.58 | 4.58 | 4.58 | 4.84 | 4.85 | 4.85 | 4.85 | 4.86 | 5.13 | 5.14 | 5.14 | 5.14 | 5.15 | 5.44 | 5.44 | 5.45 | 5.45 | 5.46 |
| | 68°F(20.0°C) | TC | 51043 | 51112 | 51167 | 51169 | 51238 | 54119 | 54183 | 54237 | 54247 | 54312 | 57352 | 57427 | 57491 | 57501 | 57566 | 60808 | 60874 | 60940 | 60950 | 61026 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 4.69 | 4.70 | 4.71 | 4.71 | 4.71 | 4.98 | 4.98 | 4.99 | 4.99 | 5.00 | 5.28 | 5.28 | 5.29 | 5.29 | 5.29 | 5.59 | 5.60 | 5.61 | 5.61 | 5.61 |
| | 77°F(25.0°C) | TC | 44285 | 44345 | 44393 | 44395 | 44454 | 46954 | 47010 | 47056 | 47065 | 47121 | 49759 | 49824 | 49879 | 49889 | 49944 | 52757 | 52815 | 52872 | 52880 | 52946 |
| | | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 |
| | | PI | 4.99 | 4.99 | 5.00 | 5.00 | 5.01 | 5.29 | 5.29 | 5.30 | 5.30 | 5.31 | 5.60 | 5.61 | 5.62 | 5.62 | 5.62 | 5.94 | 5.95 | 5.95 | 5.95 | 5.96 |
| | 82°F(27.8°C) | TC | 39677 | 39731 | 39774 | 39775 | 39829 | 42069 | 42118 | 42160 | 42168 | 42218 | 44582 | 44640 | 44690 | 44698 | 44748 | 47268 | 47319 | 47371 | 47378 | 47437 |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.77 | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 |
| | | PI | 4.54 | 4.55 | 4.55 | 4.55 | 4.56 | 4.82 | 4.82 | 4.83 | 4.83 | 4.83 | 5.10 | 5.11 | 5.12 | 5.12 | 5.12 | 5.41 | 5.42 | 5.42 | 5.42 | 5.43 |
| | 86°F(30.0°C) | TC | 36913 | 36962 | 37002 | 37004 | 37054 | 39137 | 39184 | 39222 | 39230 | 39277 | 41475 | 41529 | 41576 | 41583 | 41630 | 43974 | 44022 | 44070 | 44077 | 44132 |
| | | S/T | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 |
| | | PI | 4.27 | 4.28 | 4.29 | 4.29 | 4.29 | 4.53 | 4.54 | 4.54 | 4.54 | 4.55 | 4.80 | 4.81 | 4.81 | 4.82 | 4.82 | 5.09 | 5.10 | 5.10 | 5.10 | 5.11 |
| | 95°F(35.0°C) | TC | 31457 | 31500 | 31534 | 31535 | 31577 | 33353 | 33393 | 33426 | 33432 | 33472 | 35346 | 35392 | 35431 | 35438 | 35477 | 37475 | 37516 | 37557 | 37563 | 37610 |
| | | S/T | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | 0.63 | 0.74 | 0.84 | 0.84 | 0.96 |
| | | PI | 3.69 | 3.70 | 3.70 | 3.70 | 3.71 | 3.92 | 3.92 | 3.92 | 3.93 | 3.93 | 4.15 | 4.16 | 4.16 | 4.16 | 4.17 | 4.40 | 4.40 | 4.41 | 4.41 | 4.42 |
| | 104°F(40.0°C) | TC | 24184 | 24216 | 24242 | 24243 | 24276 | 25641 | 25671 | 25697 | 25702 | 25732 | 27173 | 27208 | 27238 | 27244 | 27274 | 28810 | 28841 | 28873 | 28877 | 28913 |
| | | S/T | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 | 0.64 | 0.76 | 0.86 | 0.86 | 0.98 |
| | | PI | 2.92 | 2.92 | 2.93 | 2.93 | 2.93 | 3.09 | 3.10 | 3.10 | 3.10 | 3.11 | 3.28 | 3.28 | 3.29 | 3.29 | 3.29 | 3.48 | 3.48 | 3.48 | 3.49 | 3.49 |
| | 110°F(43.0°C) | TC | 40628 | 40683 | 40727 | 40729 | 40784 | 43077 | 43128 | 43170 | 43179 | 43230 | 45650 | 45710 | 45761 | 45769 | 45820 | 48401 | 48454 | 48506 | 48514 | 48574 |
| | | S/T | 0.48 | 0.56 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.77 | 0.54 | 0.63 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.76 | 0.76 | 0.87 |
| | | PI | 3.89 | 3.90 | 3.90 | 3.90 | 3.91 | 4.13 | 4.13 | 4.14 | 4.14 | 4.14 | 4.37 | 4.38 | 4.39 | 4.39 | 4.39 | 4.64 | 4.64 | 4.65 | 4.65 | 4.65 |
| 115°F(46.0°C) | TC | 43754 | 43812 | 43860 | 43862 | 43921 | 46390 | 46445 | 46491 | 46500 | 46556 | 49162 | 49226 | 49281 | 49290 | 49345 | 52124 | 52181 | 52237 | 52246 | 52311 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.82 | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | |
| | PI | 4.19 | 4.20 | 4.20 | 4.20 | 4.21 | 4.45 | 4.45 | 4.46 | 4.46 | 4.46 | 4.71 | 4.72 | 4.72 | 4.72 | 4.73 | 5.00 | 5.00 | 5.01 | 5.01 | 5.01 | |
| 122°F(50.0°C) | TC | 45143 | 45203 | 45252 | 45254 | 45315 | 47863 | 47920 | 47967 | 47977 | 48034 | 50723 | 50789 | 50845 | 50855 | 50911 | 53779 | 53837 | 53896 | 53904 | 53971 | |
| | S/T | 0.48 | 0.57 | 0.64 | 0.64 | 0.73 | 0.51 | 0.60 | 0.68 | 0.68 | 0.78 | 0.54 | 0.64 | 0.72 | 0.72 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 4.33 | 4.33 | 4.34 | 4.34 | 4.34 | 4.59 | 4.59 | 4.60 | 4.60 | 4.60 | 4.86 | 4.87 | 4.87 | 4.87 | 4.88 | 5.15 | 5.16 | 5.16 | 5.17 | 5.17 | |
| -22°F(-30.0°C) | TC | 46879 | 46942 | 46992 | 46995 | 47058 | 49704 | 49763 | 49812 | 49822 | 49881 | 52673 | 52742 | 52801 | 52811 | 52869 | 55847 | 55908 | 55969 | 55977 | 56047 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 4.49 | 4.50 | 4.50 | 4.50 | 4.51 | 4.76 | 4.77 | 4.77 | 4.77 | 4.78 | 5.05 | 5.05 | 5.06 | 5.06 | 5.07 | 5.35 | 5.36 | 5.36 | 5.36 | 5.37 | |
| -13°F(-25.0°C) | TC | 48097 | 48161 | 48213 | 48215 | 48280 | 50995 | 51056 | 51106 | 51116 | 51177 | 54042 | 54112 | 54172 | 54182 | 54243 | 57298 | 57360 | 57423 | 57432 | 57503 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.78 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | |
| | PI | 4.35 | 4.36 | 4.36 | 4.36 | 4.37 | 4.61 | 4.62 | 4.62 | 4.62 | 4.63 | 4.89 | 4.89 | 4.90 | 4.90 | 4.91 | 5.18 | 5.19 | 5.19 | 5.19 | 5.20 | |
| -4°F(-20.0°C) | TC | 48503 | 48568 | 48620 | 48622 | 48688 | 51426 | 51486 | 51537 | 51547 | 51609 | 54498 | 54569 | 54630 | 54640 | 54701 | 57782 | 57844 | 57907 | 57916 | 57988 | |
| | S/T | 0.49 | 0.57 | 0.65 | 0.65 | 0.74 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.78 | 0.78 | 0.88 | |
| | PI | 4.30 | 4.31 | 4.31 | 4.31 | 4.32 | 4.56 | 4.57 | 4.57 | 4.57 | 4.58 | 4.83 | 4.84 | 4.85 | 4.85 | 4.85 | 5.12 | 5.13 | 5.14 | 5.14 | 5.14 | |
| 0°F(-17.8°C) | TC | 48938 | 49004 | 49057 | 49059 | 49125 | 51888 | 51949 | 52000 | 52011 | 52072 | 54988 | 55059 | 55120 | 55131 | 55192 | 58301 | 58364 | 58428 | 58437 | 58509 | |
| | S/T | 0.49 | 0.58 | 0.65 | 0.65 | 0.75 | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.58 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 4.17 | 4.17 | 4.18 | 4.18 | 4.18 | 4.42 | 4.43 | 4.43 | 4.43 | 4.44 | 4.68 | 4.69 | 4.70 | 4.70 | 4.70 | 4.97 | 4.97 | 4.98 | 4.98 | 4.98 | |
| 5°F(-15.0°C) | TC | 49810 | 49877 | 49931 | 49933 | 50000 | 52812 | 52874 | 52926 | 52937 | 53000 | 55967 | 56039 | 56102 | 56112 | 56175 | 59339 | 59403 | 59468 | 59477 | 59551 | |
| | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 3.90 | 3.91 | 3.91 | 3.91 | 3.92 | 4.14 | 4.14 | 4.15 | 4.15 | 4.15 | 4.38 | 4.39 | 4.40 | 4.40 | 4.40 | 4.65 | 4.65 | 4.66 | 4.66 | 4.67 | |
| 14°F(-10.0°C) | TC | 49551 | 49618 | 49672 | 49674 | 49741 | 52538 | 52600 | 52652 | 52662 | 52725 | 55677 | 55749 | 55811 | 55821 | 55884 | 59031 | 59095 | 59160 | 59169 | 59243 | |
| | S/T | 0.49 | 0.58 | 0.66 | 0.66 | 0.75 | 0.52 | 0.61 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | |
| | PI | 4.35 | 4.36 | 4.36 | 4.36 | 4.37 | 4.61 | 4.62 | 4.62 | 4.63 | 4.63 | 4.89 | 4.90 | 4.90 | 4.90 | 4.91 | 5.18 | 5.19 | 5.20 | 5.20 | 5.20 | |
| 17°F(-8.3°C) | TC | 49293 | 49359 | 49413 | 49415 | 49482 | 52264 | 52326 | 52377 | 52388 | 52450 | 55386 | 55458 | 55520 | 55530 | 55592 | 58723 | 58787 | 58851 | 58860 | 58934 | |
| | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.75 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.65 | 0.74 | 0.74 | 0.85 | 0.59 | 0.69 | 0.79 | 0.79 | 0.90 | |
| | PI | 4.80 | 4.81 | 4.81 | 4.81 | 4.82 | 5.09 | 5.10 | 5.10 | 5.10 | 5.11 | 5.40 | 5.40 | 5.41 | 5.41 | 5.42 | 5.72 | 5.73 | 5.73 | 5.73 | 5.74 | |

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

Table 6 – 48K Cooling Performance (Continued)

| | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1481 | 23°F(-5.0°C) | TC | 50292 | 50360 | 50414 | 50417 | 50485 | 53323 | 53386 | 53439 | 53450 | 53513 | 56509 | 56582 | 56646 | 56656 | 56719 | 59914 | 59979 | 60044 | 60054 | 60128 |
| | | S/T | 0.50 | 0.58 | 0.66 | 0.66 | 0.76 | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 |
| | | PI | 4.81 | 4.82 | 4.82 | 4.82 | 4.83 | 5.10 | 5.11 | 5.11 | 5.11 | 5.12 | 5.40 | 5.41 | 5.42 | 5.42 | 5.42 | 5.73 | 5.74 | 5.74 | 5.74 | 5.75 |
| | 35°F(1.7°C) | TC | 53290 | 53362 | 53419 | 53422 | 53494 | 56502 | 56569 | 56624 | 56636 | 56703 | 59877 | 59955 | 60022 | 60033 | 60100 | 63485 | 63554 | 63623 | 63633 | 63712 |
| | | S/T | 0.50 | 0.59 | 0.67 | 0.67 | 0.76 | 0.53 | 0.62 | 0.71 | 0.71 | 0.81 | 0.56 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 |
| | | PI | 4.83 | 4.84 | 4.85 | 4.85 | 4.85 | 5.13 | 5.13 | 5.14 | 5.14 | 5.14 | 5.43 | 5.44 | 5.45 | 5.45 | 5.45 | 5.76 | 5.77 | 5.77 | 5.77 | 5.78 |
| | 41°F(5.0°C) | TC | 56288 | 56364 | 56424 | 56427 | 56503 | 59680 | 59751 | 59810 | 59822 | 59893 | 63246 | 63328 | 63398 | 63410 | 63481 | 67056 | 67129 | 67202 | 67213 | 67296 |
| | | S/T | 0.51 | 0.60 | 0.69 | 0.69 | 0.78 | 0.54 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.61 | 0.72 | 0.82 | 0.82 | 0.93 |
| | | PI | 4.86 | 4.87 | 4.87 | 4.87 | 4.88 | 5.15 | 5.16 | 5.16 | 5.16 | 5.17 | 5.46 | 5.47 | 5.47 | 5.47 | 5.48 | 5.79 | 5.80 | 5.80 | 5.80 | 5.81 |
| | 47°F(8.3°C) | TC | 59286 | 59365 | 59429 | 59432 | 59512 | 62858 | 62933 | 62995 | 63007 | 63082 | 66614 | 66700 | 66775 | 66787 | 66862 | 70627 | 70704 | 70781 | 70792 | 70880 |
| | | S/T | 0.52 | 0.61 | 0.69 | 0.69 | 0.79 | 0.55 | 0.65 | 0.74 | 0.74 | 0.84 | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.94 |
| | | PI | 4.88 | 4.89 | 4.90 | 4.90 | 4.90 | 5.18 | 5.18 | 5.19 | 5.19 | 5.20 | 5.49 | 5.49 | 5.50 | 5.50 | 5.51 | 5.82 | 5.82 | 5.83 | 5.83 | 5.84 |
| | 50°F(10.0°C) | TC | 58722 | 58801 | 58864 | 58867 | 58946 | 62261 | 62335 | 62396 | 62409 | 62483 | 65981 | 66066 | 66140 | 66152 | 66226 | 69956 | 70032 | 70108 | 70119 | 70207 |
| | | S/T | 0.53 | 0.62 | 0.70 | 0.70 | 0.80 | 0.56 | 0.66 | 0.75 | 0.75 | 0.85 | 0.59 | 0.70 | 0.79 | 0.79 | 0.90 | 0.63 | 0.74 | 0.84 | 0.84 | 0.95 |
| | | PI | 4.96 | 4.97 | 4.97 | 4.97 | 4.98 | 5.26 | 5.27 | 5.27 | 5.27 | 5.28 | 5.57 | 5.58 | 5.59 | 5.59 | 5.59 | 5.91 | 5.92 | 5.92 | 5.92 | 5.93 |
| | 59°F(15.0°C) | TC | 55459 | 55533 | 55593 | 55596 | 55671 | 58801 | 58871 | 58929 | 58941 | 59010 | 62314 | 62395 | 62465 | 62476 | 62546 | 66069 | 66141 | 66213 | 66223 | 66305 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 5.10 | 5.11 | 5.11 | 5.11 | 5.12 | 5.41 | 5.41 | 5.42 | 5.42 | 5.43 | 5.73 | 5.74 | 5.75 | 5.75 | 5.75 | 6.08 | 6.08 | 6.09 | 6.09 | 6.10 |
| | 68°F(20.0°C) | TC | 48117 | 48181 | 48233 | 48235 | 48300 | 51016 | 51077 | 51127 | 51137 | 51198 | 54064 | 54135 | 54195 | 54205 | 54265 | 57322 | 57384 | 57447 | 57455 | 57527 |
| | | S/T | 0.53 | 0.63 | 0.71 | 0.71 | 0.81 | 0.57 | 0.66 | 0.75 | 0.75 | 0.86 | 0.60 | 0.70 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 |
| | | PI | 5.42 | 5.43 | 5.43 | 5.43 | 5.44 | 5.74 | 5.75 | 5.76 | 5.76 | 5.76 | 6.09 | 6.10 | 6.10 | 6.10 | 6.11 | 6.45 | 6.46 | 6.47 | 6.47 | 6.48 |
| | 77°F(25.0°C) | TC | 43110 | 43168 | 43215 | 43216 | 43275 | 45708 | 45762 | 45807 | 45816 | 45871 | 48439 | 48502 | 48556 | 48565 | 48619 | 51357 | 51413 | 51469 | 51477 | 51541 |
| | | S/T | 0.55 | 0.64 | 0.73 | 0.73 | 0.83 | 0.58 | 0.68 | 0.77 | 0.77 | 0.88 | 0.62 | 0.72 | 0.82 | 0.82 | 0.93 | 0.65 | 0.76 | 0.87 | 0.87 | 0.99 |
| | | PI | 4.93 | 4.94 | 4.95 | 4.95 | 4.95 | 5.23 | 5.24 | 5.24 | 5.24 | 5.25 | 5.54 | 5.55 | 5.56 | 5.56 | 5.57 | 5.88 | 5.88 | 5.89 | 5.89 | 5.90 |
| 82°F(27.8°C) | TC | 40106 | 40160 | 40203 | 40205 | 40259 | 42523 | 42574 | 42616 | 42624 | 42675 | 45064 | 45122 | 45172 | 45181 | 45231 | 47779 | 47831 | 47883 | 47890 | 47950 | |
| | S/T | 0.57 | 0.67 | 0.76 | 0.76 | 0.86 | 0.60 | 0.71 | 0.80 | 0.80 | 0.91 | 0.64 | 0.75 | 0.85 | 0.85 | 0.97 | 0.68 | 0.79 | 0.90 | 0.90 | 1.00 | |
| | PI | 4.64 | 4.65 | 4.66 | 4.66 | 4.66 | 4.92 | 4.93 | 4.94 | 4.94 | 4.94 | 5.22 | 5.23 | 5.23 | 5.23 | 5.24 | 5.53 | 5.54 | 5.55 | 5.55 | 5.55 | |
| 86°F(30.0°C) | TC | 34179 | 34225 | 34262 | 34263 | 34309 | 36239 | 36282 | 36317 | 36325 | 36368 | 38404 | 38454 | 38496 | 38504 | 38547 | 40718 | 40762 | 40806 | 40813 | 40863 | |
| | S/T | 0.57 | 0.67 | 0.77 | 0.77 | 0.87 | 0.61 | 0.71 | 0.81 | 0.81 | 0.92 | 0.65 | 0.76 | 0.86 | 0.86 | 0.98 | 0.68 | 0.80 | 0.91 | 0.91 | 1.00 | |
| | PI | 4.01 | 4.02 | 4.02 | 4.02 | 4.03 | 4.25 | 4.26 | 4.26 | 4.27 | 4.27 | 4.51 | 4.52 | 4.52 | 4.52 | 4.53 | 4.78 | 4.79 | 4.79 | 4.79 | 4.80 | |
| 95°F(35.0°C) | TC | 26276 | 26311 | 26339 | 26341 | 26376 | 27859 | 27892 | 27920 | 27925 | 27958 | 29524 | 29562 | 29595 | 29601 | 29634 | 31303 | 31337 | 31371 | 31376 | 31415 | |
| | S/T | 0.59 | 0.69 | 0.78 | 0.78 | 0.89 | 0.62 | 0.73 | 0.83 | 0.83 | 0.95 | 0.66 | 0.77 | 0.88 | 0.88 | 1.00 | 0.70 | 0.82 | 0.93 | 0.93 | 1.00 | |
| | PI | 3.17 | 3.18 | 3.18 | 3.18 | 3.18 | 3.36 | 3.37 | 3.37 | 3.37 | 3.37 | 3.56 | 3.57 | 3.57 | 3.57 | 3.58 | 3.78 | 3.78 | 3.79 | 3.79 | 3.79 | |
| 104°F(40.0°C) | TC | 31675 | 31718 | 31752 | 31753 | 31796 | 33584 | 33624 | 33657 | 33664 | 33704 | 35591 | 35637 | 35677 | 35683 | 35723 | 37735 | 37776 | 37817 | 37823 | 37870 | |
| | S/T | 0.37 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.46 | 0.53 | 0.53 | 0.60 | 0.42 | 0.49 | 0.56 | 0.56 | 0.64 | 0.45 | 0.52 | 0.59 | 0.59 | 0.68 | |
| | PI | 3.04 | 3.04 | 3.04 | 3.04 | 3.05 | 3.22 | 3.22 | 3.23 | 3.23 | 3.23 | 3.41 | 3.42 | 3.42 | 3.42 | 3.42 | 3.62 | 3.62 | 3.62 | 3.62 | 3.63 | |
| 110°F(43.0°C) | TC | 34112 | 34158 | 34195 | 34196 | 34242 | 36168 | 36210 | 36246 | 36253 | 36296 | 38328 | 38378 | 38421 | 38428 | 38471 | 40638 | 40682 | 40726 | 40733 | 40783 | |
| | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | |
| | PI | 3.27 | 3.27 | 3.28 | 3.28 | 3.28 | 3.47 | 3.47 | 3.47 | 3.47 | 3.48 | 3.67 | 3.68 | 3.68 | 3.68 | 3.69 | 3.89 | 3.90 | 3.90 | 3.90 | 3.91 | |
| 115°F(46.0°C) | TC | 35195 | 35242 | 35280 | 35282 | 35329 | 37316 | 37360 | 37397 | 37404 | 37449 | 39545 | 39597 | 39641 | 39648 | 39692 | 41928 | 41973 | 42019 | 42026 | 42078 | |
| | S/T | 0.38 | 0.44 | 0.50 | 0.50 | 0.57 | 0.40 | 0.47 | 0.53 | 0.53 | 0.61 | 0.42 | 0.50 | 0.56 | 0.56 | 0.64 | 0.45 | 0.53 | 0.60 | 0.60 | 0.68 | |
| | PI | 3.37 | 3.38 | 3.38 | 3.38 | 3.39 | 3.58 | 3.58 | 3.58 | 3.58 | 3.59 | 3.79 | 3.79 | 3.80 | 3.80 | 3.80 | 4.02 | 4.02 | 4.03 | 4.03 | 4.03 | |
| 122°F(50.0°C) | TC | 36548 | 36598 | 36637 | 36639 | 36688 | 38751 | 38797 | 38835 | 38843 | 38889 | 41066 | 41120 | 41165 | 41173 | 41219 | 43540 | 43588 | 43635 | 43642 | 43696 | |
| | S/T | 0.38 | 0.44 | 0.50 | 0.51 | 0.58 | 0.40 | 0.47 | 0.54 | 0.54 | 0.61 | 0.43 | 0.50 | 0.57 | 0.57 | 0.65 | 0.45 | 0.53 | 0.60 | 0.60 | 0.69 | |
| | PI | 3.50 | 3.51 | 3.51 | 3.51 | 3.52 | 3.71 | 3.72 | 3.72 | 3.72 | 3.73 | 3.94 | 3.94 | 3.94 | 3.95 | 3.95 | 4.17 | 4.18 | 4.18 | 4.18 | 4.19 | |

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

LEGEND

TC - Total Net Capacity (Btu/hour)
 S/T: Sensible Cooling Capacity Ratio
 PI: Power Input (kW)
 Extrapolated Data

HEATING PERFORMANCE

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HEATING PERFORMANCE 18K

Table 7 – 18K Heating Performance

| AIRFLOW (CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | | | |
|------------------|--|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
| | OUTDOOR DB°F(°C) | TC: Total Heating Capacity (BTU/hr) | | | | | PI: Power Input (kW) | | | | |
| | | Indoor Conditions (DB °F(°C)) | | | | | Indoor Conditions (DB °F(°C)) | | | | |
| | | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) |
| 262 | -13°F(-25.0°C) | 10909 | 10690 | 10637 | 9352 | 9268 | 3.14 | 3.16 | 3.17 | 3.18 | 3.19 |
| | -4°F(-20.0°C) | 13568 | 13296 | 13230 | 11632 | 11527 | 3.27 | 3.29 | 3.30 | 3.31 | 3.32 |
| | 0°F(-17.8°C) | 16023 | 15702 | 15624 | 13736 | 13613 | 3.43 | 3.46 | 3.47 | 3.47 | 3.49 |
| | 5°F(-15.0°C) | 19091 | 18710 | 18616 | 16367 | 16220 | 3.64 | 3.67 | 3.68 | 3.68 | 3.70 |
| | 14°F(-10.0°C) | 20099 | 19697 | 19599 | 17231 | 17076 | 3.79 | 3.82 | 3.83 | 3.84 | 3.85 |
| | 17°F(-8.3°C) | 20435 | 20026 | 19926 | 17519 | 17362 | 3.84 | 3.87 | 3.88 | 3.89 | 3.90 |
| | 22°F(-5.6°C) | 21303 | 20877 | 20773 | 18263 | 18099 | 3.78 | 3.81 | 3.82 | 3.83 | 3.84 |
| | 27°F(-2.8°C) | 22171 | 21728 | 21619 | 19008 | 18837 | 3.72 | 3.75 | 3.76 | 3.77 | 3.78 |
| | 32°F(-0.0°C) | 23039 | 22579 | 22466 | 19752 | 19574 | 3.66 | 3.69 | 3.70 | 3.70 | 3.72 |
| | 35°F(1.7°C) | 23560 | 23089 | 22974 | 20198 | 20017 | 3.62 | 3.65 | 3.66 | 3.67 | 3.68 |
| | 37°F(2.8°C) | 24551 | 24060 | 23940 | 21048 | 20858 | 3.66 | 3.69 | 3.69 | 3.70 | 3.72 |
| | 42°F(5.6°C) | 27028 | 26487 | 26355 | 23171 | 22962 | 3.74 | 3.77 | 3.78 | 3.78 | 3.80 |
| | 44.6°F(7.0°C) | 28018 | 27458 | 27321 | 24020 | 23804 | 3.77 | 3.80 | 3.81 | 3.82 | 3.83 |
| | 47°F(8.3°C) | 29504 | 28914 | 28770 | 25294 | 25066 | 3.82 | 3.85 | 3.86 | 3.86 | 3.88 |
| | 52°F(11.1°C) | 29736 | 29142 | 28996 | 25493 | 25264 | 3.69 | 3.72 | 3.72 | 3.73 | 3.75 |
| | 57°F(13.9°C) | 29969 | 29369 | 29222 | 25692 | 25461 | 3.55 | 3.58 | 3.59 | 3.60 | 3.61 |
| 59°F(15.0°C) | 30061 | 29460 | 29313 | 25772 | 25540 | 3.50 | 3.53 | 3.54 | 3.54 | 3.56 | |
| 62°F(16.7°C) | 30201 | 29597 | 29449 | 25891 | 25658 | 3.42 | 3.45 | 3.45 | 3.46 | 3.48 | |
| 64.4°F(18.0°C) | 30294 | 29688 | 29539 | 25971 | 25737 | 3.37 | 3.39 | 3.40 | 3.41 | 3.42 | |
| 432 | -13°F(-25.0°C) | 12268 | 12022 | 11962 | 11194 | 11093 | 3.17 | 3.20 | 3.20 | 3.21 | 3.22 |
| | -4°F(-20.0°C) | 15258 | 14953 | 14878 | 13923 | 13798 | 3.30 | 3.33 | 3.33 | 3.34 | 3.35 |
| | 0°F(-17.8°C) | 18019 | 17659 | 17570 | 16442 | 16294 | 3.47 | 3.50 | 3.50 | 3.51 | 3.52 |
| | 5°F(-15.0°C) | 21470 | 21041 | 20935 | 19591 | 19415 | 3.68 | 3.71 | 3.71 | 3.72 | 3.73 |
| | 14°F(-10.0°C) | 22604 | 22151 | 22041 | 20625 | 20440 | 3.83 | 3.86 | 3.87 | 3.88 | 3.89 |
| | 17°F(-8.3°C) | 22981 | 22522 | 22409 | 20970 | 20781 | 3.88 | 3.91 | 3.92 | 3.93 | 3.94 |
| | 22°F(-5.6°C) | 23958 | 23478 | 23361 | 21861 | 21664 | 3.82 | 3.85 | 3.86 | 3.87 | 3.88 |
| | 27°F(-2.8°C) | 24934 | 24435 | 24313 | 22752 | 22547 | 3.76 | 3.79 | 3.80 | 3.80 | 3.82 |
| | 32°F(-0.0°C) | 25910 | 25392 | 25265 | 23642 | 23430 | 3.70 | 3.73 | 3.73 | 3.74 | 3.76 |
| | 35°F(1.7°C) | 26496 | 25966 | 25836 | 24177 | 23959 | 3.66 | 3.69 | 3.70 | 3.70 | 3.72 |
| | 37°F(2.8°C) | 27610 | 27058 | 26922 | 25193 | 24967 | 3.69 | 3.72 | 3.73 | 3.74 | 3.75 |
| | 42°F(5.6°C) | 30395 | 29787 | 29638 | 27735 | 27485 | 3.78 | 3.81 | 3.81 | 3.82 | 3.84 |
| | 44.6°F(7.0°C) | 31509 | 30879 | 30725 | 28751 | 28493 | 3.81 | 3.84 | 3.85 | 3.85 | 3.87 |
| | 47°F(8.3°C) | 33180 | 32517 | 32354 | 30276 | 30004 | 3.86 | 3.89 | 3.90 | 3.90 | 3.92 |
| | 52°F(11.1°C) | 33441 | 32773 | 32609 | 30515 | 30240 | 3.72 | 3.75 | 3.76 | 3.77 | 3.78 |
| | 57°F(13.9°C) | 33703 | 33028 | 32863 | 30753 | 30476 | 3.59 | 3.62 | 3.62 | 3.63 | 3.65 |
| 59°F(15.0°C) | 33807 | 33131 | 32965 | 30848 | 30571 | 3.54 | 3.56 | 3.57 | 3.58 | 3.59 | |
| 62°F(16.7°C) | 33964 | 33284 | 33118 | 30991 | 30712 | 3.45 | 3.48 | 3.49 | 3.50 | 3.51 | |
| 64.4°F(18.0°C) | 34068 | 33387 | 33220 | 31086 | 30807 | 3.40 | 3.43 | 3.44 | 3.44 | 3.46 | |

Table 7 – 18K Heating Performance (Continued)

| | | | | | | | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 533 | -13°F(-25.0°C) | 13796 | 13520 | 13453 | 13399 | 13278 | 3.20 | 3.23 | 3.24 | 3.24 | 3.25 |
| | -4°F(-20.0°C) | 17159 | 16816 | 16732 | 16665 | 16515 | 3.33 | 3.36 | 3.37 | 3.37 | 3.39 |
| | 0°F(-17.8°C) | 20264 | 19859 | 19760 | 19681 | 19503 | 3.50 | 3.53 | 3.54 | 3.54 | 3.56 |
| | 5°F(-15.0°C) | 24145 | 23662 | 23544 | 23450 | 23239 | 3.71 | 3.74 | 3.75 | 3.76 | 3.77 |
| | 14°F(-10.0°C) | 25420 | 24911 | 24787 | 24688 | 24466 | 3.87 | 3.90 | 3.91 | 3.91 | 3.93 |
| | 17°F(-8.3°C) | 25845 | 25328 | 25201 | 25100 | 24874 | 3.92 | 3.95 | 3.96 | 3.97 | 3.98 |
| | 22°F(-5.6°C) | 26943 | 26404 | 26272 | 26167 | 25931 | 3.86 | 3.89 | 3.90 | 3.90 | 3.92 |
| | 27°F(-2.8°C) | 28040 | 27480 | 27342 | 27233 | 26988 | 3.80 | 3.83 | 3.83 | 3.84 | 3.86 |
| | 32°F(-0.0°C) | 29138 | 28556 | 28413 | 28299 | 28044 | 3.73 | 3.76 | 3.77 | 3.78 | 3.79 |
| | 35°F(1.7°C) | 29797 | 29201 | 29055 | 28939 | 28678 | 3.70 | 3.73 | 3.73 | 3.74 | 3.76 |
| | 37°F(2.8°C) | 31050 | 30429 | 30277 | 30156 | 29884 | 3.73 | 3.76 | 3.77 | 3.78 | 3.79 |
| | 42°F(5.6°C) | 34182 | 33499 | 33331 | 33198 | 32899 | 3.81 | 3.84 | 3.85 | 3.86 | 3.88 |
| | 44.6°F(7.0°C) | 35435 | 34726 | 34553 | 34415 | 34105 | 3.85 | 3.88 | 3.89 | 3.89 | 3.91 |
| | 47°F(8.3°C) | 37314 | 36568 | 36385 | 36240 | 35914 | 3.90 | 3.93 | 3.94 | 3.94 | 3.96 |
| | 52°F(11.1°C) | 37608 | 36856 | 36672 | 36525 | 36196 | 3.76 | 3.79 | 3.80 | 3.81 | 3.82 |
| | 57°F(13.9°C) | 37902 | 37144 | 36958 | 36810 | 36479 | 3.62 | 3.65 | 3.66 | 3.67 | 3.68 |
| | 59°F(15.0°C) | 38019 | 37259 | 37073 | 36924 | 36592 | 3.57 | 3.60 | 3.61 | 3.61 | 3.63 |
| 62°F(16.7°C) | 38195 | 37431 | 37244 | 37095 | 36761 | 3.49 | 3.52 | 3.52 | 3.53 | 3.55 | |
| 64.4°F(18.0°C) | 38313 | 37547 | 37359 | 37209 | 36875 | 3.44 | 3.46 | 3.47 | 3.48 | 3.49 | |
| 638 | -13°F(-25.0°C) | 15515 | 15205 | 15129 | 15068 | 14933 | 3.24 | 3.26 | 3.27 | 3.27 | 3.29 |
| | -4°F(-20.0°C) | 19297 | 18911 | 18817 | 18742 | 18573 | 3.37 | 3.40 | 3.40 | 3.41 | 3.42 |
| | 0°F(-17.8°C) | 22789 | 22333 | 22222 | 22133 | 21933 | 3.54 | 3.57 | 3.57 | 3.58 | 3.60 |
| | 5°F(-15.0°C) | 27154 | 26610 | 26477 | 26372 | 26134 | 3.75 | 3.78 | 3.79 | 3.80 | 3.81 |
| | 14°F(-10.0°C) | 28587 | 28015 | 27875 | 27764 | 27514 | 3.91 | 3.94 | 3.95 | 3.95 | 3.97 |
| | 17°F(-8.3°C) | 29065 | 28484 | 28341 | 28228 | 27974 | 3.96 | 3.99 | 4.00 | 4.01 | 4.02 |
| | 22°F(-5.6°C) | 30299 | 29694 | 29545 | 29427 | 29162 | 3.90 | 3.93 | 3.94 | 3.94 | 3.96 |
| | 27°F(-2.8°C) | 31534 | 30903 | 30749 | 30626 | 30350 | 3.83 | 3.87 | 3.87 | 3.88 | 3.90 |
| | 32°F(-0.0°C) | 32769 | 32113 | 31953 | 31825 | 31539 | 3.77 | 3.80 | 3.81 | 3.82 | 3.83 |
| | 35°F(1.7°C) | 33510 | 32839 | 32675 | 32545 | 32252 | 3.73 | 3.77 | 3.77 | 3.78 | 3.80 |
| | 37°F(2.8°C) | 34919 | 34220 | 34049 | 33913 | 33608 | 3.77 | 3.80 | 3.81 | 3.81 | 3.83 |
| | 42°F(5.6°C) | 38441 | 37672 | 37484 | 37334 | 36998 | 3.85 | 3.88 | 3.89 | 3.90 | 3.91 |
| | 44.6°F(7.0°C) | 39850 | 39053 | 38858 | 38702 | 38354 | 3.89 | 3.92 | 3.92 | 3.93 | 3.95 |
| | 47°F(8.3°C) | 41964 | 41124 | 40919 | 40755 | 40388 | 3.94 | 3.97 | 3.98 | 3.98 | 4.00 |
| | 52°F(11.1°C) | 42294 | 41448 | 41241 | 41076 | 40706 | 3.80 | 3.83 | 3.84 | 3.84 | 3.86 |
| | 57°F(13.9°C) | 42624 | 41772 | 41563 | 41397 | 41024 | 3.66 | 3.69 | 3.70 | 3.71 | 3.72 |
| | 59°F(15.0°C) | 42756 | 41901 | 41692 | 41525 | 41151 | 3.61 | 3.64 | 3.64 | 3.65 | 3.67 |
| 62°F(16.7°C) | 42954 | 42095 | 41885 | 41717 | 41342 | 3.52 | 3.55 | 3.56 | 3.57 | 3.58 | |
| 64.4°F(18.0°C) | 43086 | 42225 | 42014 | 41846 | 41469 | 3.47 | 3.50 | 3.51 | 3.51 | 3.53 | |

HEATING PERFORMANCE 27K

Table 8 – 27K Heating Performance

| AIRFLOW (CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | | | |
|------------------|--|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
| | OUTDOOR DB°F(°C) | TC: Total Heating Capacity (BTU/hr) | | | | | PI: Power Input (kW) | | | | |
| | | Indoor Conditions (DB °F(°C)) | | | | | Indoor Conditions (DB °F(°C)) | | | | |
| | | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) |
| 539 | -13°F(-25.0°C) | 5664 | 5550 | 5523 | 5333 | 5285 | 2.13 | 2.15 | 2.15 | 2.15 | 2.16 |
| | -4°F(-20.0°C) | 7789 | 7633 | 7595 | 7334 | 7268 | 2.28 | 2.30 | 2.30 | 2.31 | 2.32 |
| | 0°F(-17.8°C) | 9856 | 9659 | 9611 | 9280 | 9196 | 2.40 | 2.42 | 2.42 | 2.43 | 2.44 |
| | 5°F(-15.0°C) | 12440 | 12191 | 12130 | 11713 | 11607 | 2.55 | 2.57 | 2.58 | 2.58 | 2.59 |
| | 14°F(-10.0°C) | 11032 | 10811 | 10757 | 10387 | 10294 | 2.31 | 2.33 | 2.33 | 2.34 | 2.35 |
| | 17°F(-8.3°C) | 10563 | 10352 | 10300 | 9945 | 9856 | 2.23 | 2.25 | 2.25 | 2.26 | 2.27 |
| | 22°F(-5.6°C) | 12271 | 12026 | 11966 | 11554 | 11450 | 2.30 | 2.32 | 2.33 | 2.33 | 2.34 |
| | 27°F(-2.8°C) | 13980 | 13700 | 13632 | 13162 | 13044 | 2.38 | 2.40 | 2.40 | 2.41 | 2.42 |
| | 32°F(-0.0°C) | 15688 | 15375 | 15298 | 14771 | 14638 | 2.45 | 2.47 | 2.48 | 2.48 | 2.49 |
| | 35°F(1.7°C) | 16713 | 16379 | 16297 | 15736 | 15595 | 2.50 | 2.52 | 2.52 | 2.53 | 2.54 |
| | 37°F(2.8°C) | 17287 | 16941 | 16856 | 16276 | 16130 | 2.52 | 2.54 | 2.55 | 2.55 | 2.56 |
| | 42°F(5.6°C) | 18720 | 18346 | 18254 | 17626 | 17467 | 2.58 | 2.60 | 2.61 | 2.61 | 2.62 |
| | 44.6°F(7.0°C) | 19294 | 18908 | 18813 | 18166 | 18002 | 2.61 | 2.63 | 2.63 | 2.64 | 2.65 |
| | 47°F(8.3°C) | 20154 | 19751 | 19652 | 18976 | 18805 | 2.64 | 2.66 | 2.67 | 2.68 | 2.69 |
| | 52°F(11.1°C) | 19850 | 19453 | 19356 | 18690 | 18521 | 2.35 | 2.37 | 2.37 | 2.38 | 2.39 |
| | 57°F(13.9°C) | 19546 | 19155 | 19060 | 18403 | 18238 | 2.06 | 2.07 | 2.08 | 2.08 | 2.09 |
| 59°F(15.0°C) | 19425 | 19036 | 18941 | 18289 | 18124 | 1.94 | 1.96 | 1.96 | 1.96 | 1.97 | |
| 62°F(16.7°C) | 19242 | 18858 | 18763 | 18117 | 17954 | 1.77 | 1.78 | 1.78 | 1.79 | 1.79 | |
| 64.4°F(18.0°C) | 19121 | 18738 | 18645 | 18003 | 17841 | 1.65 | 1.66 | 1.67 | 1.67 | 1.68 | |
| 671 | -13°F(-25.0°C) | 6537 | 6406 | 6374 | 6251 | 6195 | 2.15 | 2.17 | 2.17 | 2.18 | 2.18 |
| | -4°F(-20.0°C) | 8990 | 8811 | 8766 | 8597 | 8520 | 2.30 | 2.32 | 2.33 | 2.33 | 2.34 |
| | 0°F(-17.8°C) | 11376 | 11149 | 11093 | 10879 | 10781 | 2.42 | 2.44 | 2.45 | 2.45 | 2.46 |
| | 5°F(-15.0°C) | 14359 | 14072 | 14001 | 13731 | 13607 | 2.58 | 2.60 | 2.60 | 2.61 | 2.62 |
| | 14°F(-10.0°C) | 12734 | 12479 | 12417 | 12177 | 12067 | 2.33 | 2.35 | 2.36 | 2.36 | 2.37 |
| | 17°F(-8.3°C) | 12192 | 11948 | 11888 | 11659 | 11554 | 2.25 | 2.27 | 2.27 | 2.28 | 2.29 |
| | 22°F(-5.6°C) | 14164 | 13881 | 13811 | 13544 | 13422 | 2.33 | 2.35 | 2.35 | 2.36 | 2.36 |
| | 27°F(-2.8°C) | 16136 | 15813 | 15734 | 15430 | 15291 | 2.40 | 2.42 | 2.43 | 2.43 | 2.44 |
| | 32°F(-0.0°C) | 18108 | 17746 | 17657 | 17316 | 17160 | 2.48 | 2.50 | 2.50 | 2.51 | 2.52 |
| | 35°F(1.7°C) | 19291 | 18905 | 18811 | 18447 | 18281 | 2.52 | 2.54 | 2.55 | 2.55 | 2.56 |
| | 37°F(2.8°C) | 19953 | 19554 | 19456 | 19080 | 18908 | 2.55 | 2.57 | 2.57 | 2.58 | 2.59 |
| | 42°F(5.6°C) | 21608 | 21176 | 21070 | 20662 | 20477 | 2.61 | 2.63 | 2.63 | 2.64 | 2.65 |
| | 44.6°F(7.0°C) | 22270 | 21824 | 21715 | 21295 | 21104 | 2.63 | 2.65 | 2.66 | 2.67 | 2.68 |
| | 47°F(8.3°C) | 23262 | 22797 | 22683 | 22245 | 22045 | 2.67 | 2.69 | 2.70 | 2.70 | 2.71 |
| | 52°F(11.1°C) | 22912 | 22454 | 22341 | 21909 | 21712 | 2.37 | 2.39 | 2.40 | 2.40 | 2.41 |
| | 57°F(13.9°C) | 22561 | 22110 | 21999 | 21574 | 21380 | 2.08 | 2.10 | 2.10 | 2.10 | 2.11 |
| 59°F(15.0°C) | 22421 | 21972 | 21862 | 21440 | 21247 | 1.96 | 1.98 | 1.98 | 1.98 | 1.99 | |
| 62°F(16.7°C) | 22210 | 21766 | 21657 | 21239 | 21048 | 1.78 | 1.80 | 1.80 | 1.80 | 1.81 | |
| 64.4°F(18.0°C) | 22070 | 21629 | 21521 | 21105 | 20915 | 1.67 | 1.68 | 1.68 | 1.69 | 1.69 | |

Table 8 – 27K Heating Performance (Continued)

| | | | | | | | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 810 | -13°F(-25.0°C) | 7546 | 7395 | 7358 | 7328 | 7262 | 2.17 | 2.19 | 2.19 | 2.20 | 2.21 |
| | -4°F(-20.0°C) | 10377 | 10169 | 10119 | 10078 | 9987 | 2.33 | 2.35 | 2.35 | 2.35 | 2.36 |
| | 0°F(-17.8°C) | 13131 | 12868 | 12804 | 12753 | 12638 | 2.45 | 2.47 | 2.47 | 2.48 | 2.49 |
| | 5°F(-15.0°C) | 16573 | 16242 | 16161 | 16096 | 15951 | 2.60 | 2.62 | 2.63 | 2.63 | 2.64 |
| | 14°F(-10.0°C) | 14698 | 14404 | 14332 | 14274 | 14146 | 2.36 | 2.38 | 2.38 | 2.39 | 2.39 |
| | 17°F(-8.3°C) | 14072 | 13791 | 13722 | 13667 | 13544 | 2.27 | 2.29 | 2.30 | 2.30 | 2.31 |
| | 22°F(-5.6°C) | 16349 | 16022 | 15942 | 15878 | 15735 | 2.35 | 2.37 | 2.37 | 2.38 | 2.39 |
| | 27°F(-2.8°C) | 18625 | 18252 | 18161 | 18088 | 17926 | 2.43 | 2.45 | 2.45 | 2.46 | 2.47 |
| | 32°F(-0.0°C) | 20901 | 20483 | 20381 | 20299 | 20116 | 2.50 | 2.52 | 2.53 | 2.53 | 2.54 |
| | 35°F(1.7°C) | 22267 | 21821 | 21712 | 21625 | 21431 | 2.55 | 2.57 | 2.57 | 2.58 | 2.59 |
| | 37°F(2.8°C) | 23031 | 22570 | 22457 | 22367 | 22166 | 2.57 | 2.59 | 2.60 | 2.60 | 2.61 |
| | 42°F(5.6°C) | 24941 | 24442 | 24320 | 24222 | 24004 | 2.63 | 2.66 | 2.66 | 2.67 | 2.68 |
| | 44.6°F(7.0°C) | 25704 | 25190 | 25064 | 24964 | 24740 | 2.66 | 2.68 | 2.69 | 2.69 | 2.70 |
| | 47°F(8.3°C) | 26850 | 26313 | 26182 | 26077 | 25842 | 2.70 | 2.72 | 2.72 | 2.73 | 2.74 |
| | 52°F(11.1°C) | 26446 | 25917 | 25787 | 25684 | 25453 | 2.40 | 2.42 | 2.42 | 2.43 | 2.44 |
| | 57°F(13.9°C) | 26041 | 25520 | 25392 | 25291 | 25063 | 2.10 | 2.12 | 2.12 | 2.13 | 2.13 |
| | 59°F(15.0°C) | 25879 | 25361 | 25235 | 25134 | 24907 | 1.98 | 2.00 | 2.00 | 2.00 | 2.01 |
| 62°F(16.7°C) | 25636 | 25123 | 24998 | 24898 | 24674 | 1.80 | 1.82 | 1.82 | 1.82 | 1.83 | |
| 64.4°F(18.0°C) | 25474 | 24965 | 24840 | 24740 | 24518 | 1.68 | 1.70 | 1.70 | 1.70 | 1.71 | |
| 963 | -13°F(-25.0°C) | 8709 | 8535 | 8492 | 8458 | 8382 | 2.19 | 2.21 | 2.22 | 2.22 | 2.23 |
| | -4°F(-20.0°C) | 11978 | 11738 | 11679 | 11633 | 11528 | 2.35 | 2.37 | 2.37 | 2.38 | 2.39 |
| | 0°F(-17.8°C) | 15156 | 14853 | 14779 | 14720 | 14587 | 2.47 | 2.49 | 2.50 | 2.50 | 2.51 |
| | 5°F(-15.0°C) | 19130 | 18747 | 18653 | 18579 | 18412 | 2.63 | 2.65 | 2.66 | 2.66 | 2.67 |
| | 14°F(-10.0°C) | 16965 | 16625 | 16542 | 16476 | 16328 | 2.38 | 2.40 | 2.40 | 2.41 | 2.42 |
| | 17°F(-8.3°C) | 16243 | 15918 | 15839 | 15775 | 15633 | 2.30 | 2.32 | 2.32 | 2.33 | 2.33 |
| | 22°F(-5.6°C) | 18870 | 18493 | 18400 | 18327 | 18162 | 2.37 | 2.39 | 2.40 | 2.40 | 2.41 |
| | 27°F(-2.8°C) | 21497 | 21068 | 20962 | 20878 | 20690 | 2.45 | 2.47 | 2.48 | 2.48 | 2.49 |
| | 32°F(-0.0°C) | 24125 | 23642 | 23524 | 23430 | 23219 | 2.53 | 2.55 | 2.55 | 2.56 | 2.57 |
| | 35°F(1.7°C) | 25701 | 25187 | 25061 | 24961 | 24736 | 2.57 | 2.59 | 2.60 | 2.60 | 2.61 |
| | 37°F(2.8°C) | 26583 | 26051 | 25921 | 25817 | 25585 | 2.60 | 2.62 | 2.62 | 2.63 | 2.64 |
| | 42°F(5.6°C) | 28787 | 28212 | 28071 | 27958 | 27707 | 2.66 | 2.68 | 2.69 | 2.69 | 2.70 |
| | 44.6°F(7.0°C) | 29669 | 29076 | 28930 | 28815 | 28555 | 2.69 | 2.71 | 2.71 | 2.72 | 2.73 |
| | 47°F(8.3°C) | 30992 | 30372 | 30220 | 30099 | 29828 | 2.72 | 2.75 | 2.75 | 2.76 | 2.77 |
| | 52°F(11.1°C) | 30525 | 29914 | 29764 | 29645 | 29379 | 2.42 | 2.44 | 2.45 | 2.45 | 2.46 |
| | 57°F(13.9°C) | 30057 | 29456 | 29309 | 29192 | 28929 | 2.12 | 2.14 | 2.14 | 2.15 | 2.16 |
| | 59°F(15.0°C) | 29870 | 29273 | 29127 | 29010 | 28749 | 2.00 | 2.02 | 2.02 | 2.02 | 2.03 |
| 62°F(16.7°C) | 29590 | 28998 | 28853 | 28738 | 28479 | 1.82 | 1.83 | 1.84 | 1.84 | 1.85 | |
| 64.4°F(18.0°C) | 29403 | 28815 | 28671 | 28556 | 28299 | 1.70 | 1.71 | 1.72 | 1.72 | 1.73 | |

HEATING PERFORMANCE 36K

Table 9 – 36K Heating Performance

| AIRFLOW (CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | | | |
|------------------|--|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
| | OUTDOOR DB °F(°C) | TC: Total Heating Capacity (BTU/hr) | | | | | PI: Power Input (kW) | | | | |
| | | Indoor Conditions (DB °F(°C)) | | | | | Indoor Conditions (DB °F(°C)) | | | | |
| | | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) |
| 685 | -13°F(-25.0°C) | 10909 | 10690 | 10637 | 9352 | 9268 | 3.14 | 3.16 | 3.17 | 3.18 | 3.19 |
| | -4°F(-20.0°C) | 13568 | 13296 | 13230 | 11632 | 11527 | 3.27 | 3.29 | 3.30 | 3.31 | 3.32 |
| | 0°F(-17.8°C) | 16023 | 15702 | 15624 | 13736 | 13613 | 3.43 | 3.46 | 3.47 | 3.47 | 3.49 |
| | 5°F(-15.0°C) | 19091 | 18710 | 18616 | 16367 | 16220 | 3.64 | 3.67 | 3.68 | 3.68 | 3.70 |
| | 14°F(-10.0°C) | 20099 | 19697 | 19599 | 17231 | 17076 | 3.79 | 3.82 | 3.83 | 3.84 | 3.85 |
| | 17°F(-8.3°C) | 20435 | 20026 | 19926 | 17519 | 17362 | 3.84 | 3.87 | 3.88 | 3.89 | 3.90 |
| | 22°F(-5.6°C) | 21303 | 20877 | 20773 | 18263 | 18099 | 3.78 | 3.81 | 3.82 | 3.83 | 3.84 |
| | 27°F(-2.8°C) | 22171 | 21728 | 21619 | 19008 | 18837 | 3.72 | 3.75 | 3.76 | 3.77 | 3.78 |
| | 32°F(-0.0°C) | 23039 | 22579 | 22466 | 19752 | 19574 | 3.66 | 3.69 | 3.70 | 3.70 | 3.72 |
| | 35°F(1.7°C) | 23560 | 23089 | 22974 | 20198 | 20017 | 3.62 | 3.65 | 3.66 | 3.67 | 3.68 |
| | 37°F(2.8°C) | 24551 | 24060 | 23940 | 21048 | 20858 | 3.66 | 3.69 | 3.69 | 3.70 | 3.72 |
| | 42°F(5.6°C) | 27028 | 26487 | 26355 | 23171 | 22962 | 3.74 | 3.77 | 3.78 | 3.78 | 3.80 |
| | 44.6°F(7.0°C) | 28018 | 27458 | 27321 | 24020 | 23804 | 3.77 | 3.80 | 3.81 | 3.82 | 3.83 |
| | 47°F(8.3°C) | 29504 | 28914 | 28770 | 25294 | 25066 | 3.82 | 3.85 | 3.86 | 3.86 | 3.88 |
| | 52°F(11.1°C) | 29736 | 29142 | 28996 | 25493 | 25264 | 3.69 | 3.72 | 3.72 | 3.73 | 3.75 |
| | 57°F(13.9°C) | 29969 | 29369 | 29222 | 25692 | 25461 | 3.55 | 3.58 | 3.59 | 3.60 | 3.61 |
| 59°F(15.0°C) | 30061 | 29460 | 29313 | 25772 | 25540 | 3.50 | 3.53 | 3.54 | 3.54 | 3.56 | |
| 62°F(16.7°C) | 30201 | 29597 | 29449 | 25891 | 25658 | 3.42 | 3.45 | 3.45 | 3.46 | 3.48 | |
| 64.4°F(18.0°C) | 30294 | 29688 | 29539 | 25971 | 25737 | 3.37 | 3.39 | 3.40 | 3.41 | 3.42 | |
| 859 | -13°F(-25.0°C) | 12268 | 12022 | 11962 | 11194 | 11093 | 3.17 | 3.20 | 3.20 | 3.21 | 3.22 |
| | -4°F(-20.0°C) | 15258 | 14953 | 14878 | 13923 | 13798 | 3.30 | 3.33 | 3.33 | 3.34 | 3.35 |
| | 0°F(-17.8°C) | 18019 | 17659 | 17570 | 16442 | 16294 | 3.47 | 3.50 | 3.50 | 3.51 | 3.52 |
| | 5°F(-15.0°C) | 21470 | 21041 | 20935 | 19591 | 19415 | 3.68 | 3.71 | 3.71 | 3.72 | 3.73 |
| | 14°F(-10.0°C) | 22604 | 22151 | 22041 | 20625 | 20440 | 3.83 | 3.86 | 3.87 | 3.88 | 3.89 |
| | 17°F(-8.3°C) | 22981 | 22522 | 22409 | 20970 | 20781 | 3.88 | 3.91 | 3.92 | 3.93 | 3.94 |
| | 22°F(-5.6°C) | 23958 | 23478 | 23361 | 21861 | 21664 | 3.82 | 3.85 | 3.86 | 3.87 | 3.88 |
| | 27°F(-2.8°C) | 24934 | 24435 | 24313 | 22752 | 22547 | 3.76 | 3.79 | 3.80 | 3.80 | 3.82 |
| | 32°F(-0.0°C) | 25910 | 25392 | 25265 | 23642 | 23430 | 3.70 | 3.73 | 3.73 | 3.74 | 3.76 |
| | 35°F(1.7°C) | 26496 | 25966 | 25836 | 24177 | 23959 | 3.66 | 3.69 | 3.70 | 3.70 | 3.72 |
| | 37°F(2.8°C) | 27610 | 27058 | 26922 | 25193 | 24967 | 3.69 | 3.72 | 3.73 | 3.74 | 3.75 |
| | 42°F(5.6°C) | 30395 | 29787 | 29638 | 27735 | 27485 | 3.78 | 3.81 | 3.81 | 3.82 | 3.84 |
| | 44.6°F(7.0°C) | 31509 | 30879 | 30725 | 28751 | 28493 | 3.81 | 3.84 | 3.85 | 3.85 | 3.87 |
| | 47°F(8.3°C) | 33180 | 32517 | 32354 | 30276 | 30004 | 3.86 | 3.89 | 3.90 | 3.90 | 3.92 |
| | 52°F(11.1°C) | 33441 | 32773 | 32609 | 30515 | 30240 | 3.72 | 3.75 | 3.76 | 3.77 | 3.78 |
| | 57°F(13.9°C) | 33703 | 33028 | 32863 | 30753 | 30476 | 3.59 | 3.62 | 3.62 | 3.63 | 3.65 |
| 59°F(15.0°C) | 33807 | 33131 | 32965 | 30848 | 30571 | 3.54 | 3.56 | 3.57 | 3.58 | 3.59 | |
| 62°F(16.7°C) | 33964 | 33284 | 33118 | 30991 | 30712 | 3.45 | 3.48 | 3.49 | 3.50 | 3.51 | |
| 64.4°F(18.0°C) | 34068 | 33387 | 33220 | 31086 | 30807 | 3.40 | 3.43 | 3.44 | 3.44 | 3.46 | |

Table 9 – 36K Heating Performance (Continued)

| | | | | | | | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1059 | -13°F(-25.0°C) | 13796 | 13520 | 13453 | 13399 | 13278 | 3.20 | 3.23 | 3.24 | 3.24 | 3.25 |
| | -4°F(-20.0°C) | 17159 | 16816 | 16732 | 16665 | 16515 | 3.33 | 3.36 | 3.37 | 3.37 | 3.39 |
| | 0°F(-17.8°C) | 20264 | 19859 | 19760 | 19681 | 19503 | 3.50 | 3.53 | 3.54 | 3.54 | 3.56 |
| | 5°F(-15.0°C) | 24145 | 23662 | 23544 | 23450 | 23239 | 3.71 | 3.74 | 3.75 | 3.76 | 3.77 |
| | 14°F(-10.0°C) | 25420 | 24911 | 24787 | 24688 | 24466 | 3.87 | 3.90 | 3.91 | 3.91 | 3.93 |
| | 17°F(-8.3°C) | 25845 | 25328 | 25201 | 25100 | 24874 | 3.92 | 3.95 | 3.96 | 3.97 | 3.98 |
| | 22°F(-5.6°C) | 26943 | 26404 | 26272 | 26167 | 25931 | 3.86 | 3.89 | 3.90 | 3.90 | 3.92 |
| | 27°F(-2.8°C) | 28040 | 27480 | 27342 | 27233 | 26988 | 3.80 | 3.83 | 3.83 | 3.84 | 3.86 |
| | 32°F(-0.0°C) | 29138 | 28556 | 28413 | 28299 | 28044 | 3.73 | 3.76 | 3.77 | 3.78 | 3.79 |
| | 35°F(1.7°C) | 29797 | 29201 | 29055 | 28939 | 28678 | 3.70 | 3.73 | 3.73 | 3.74 | 3.76 |
| | 37°F(2.8°C) | 31050 | 30429 | 30277 | 30156 | 29884 | 3.73 | 3.76 | 3.77 | 3.78 | 3.79 |
| | 42°F(5.6°C) | 34182 | 33499 | 33331 | 33198 | 32899 | 3.81 | 3.84 | 3.85 | 3.86 | 3.88 |
| | 44.6°F(7.0°C) | 35435 | 34726 | 34553 | 34415 | 34105 | 3.85 | 3.88 | 3.89 | 3.89 | 3.91 |
| | 47°F(8.3°C) | 37314 | 36568 | 36385 | 36240 | 35914 | 3.90 | 3.93 | 3.94 | 3.94 | 3.96 |
| | 52°F(11.1°C) | 37608 | 36856 | 36672 | 36525 | 36196 | 3.76 | 3.79 | 3.80 | 3.81 | 3.82 |
| | 57°F(13.9°C) | 37902 | 37144 | 36958 | 36810 | 36479 | 3.62 | 3.65 | 3.66 | 3.67 | 3.68 |
| | 59°F(15.0°C) | 38019 | 37259 | 37073 | 36924 | 36592 | 3.57 | 3.60 | 3.61 | 3.61 | 3.63 |
| 62°F(16.7°C) | 38195 | 37431 | 37244 | 37095 | 36761 | 3.49 | 3.52 | 3.52 | 3.53 | 3.55 | |
| 64.4°F(18.0°C) | 38313 | 37547 | 37359 | 37209 | 36875 | 3.44 | 3.46 | 3.47 | 3.48 | 3.49 | |
| 1226 | -13°F(-25.0°C) | 15515 | 15205 | 15129 | 15068 | 14933 | 3.24 | 3.26 | 3.27 | 3.27 | 3.29 |
| | -4°F(-20.0°C) | 19297 | 18911 | 18817 | 18742 | 18573 | 3.37 | 3.40 | 3.40 | 3.41 | 3.42 |
| | 0°F(-17.8°C) | 22789 | 22333 | 22222 | 22133 | 21933 | 3.54 | 3.57 | 3.57 | 3.58 | 3.60 |
| | 5°F(-15.0°C) | 27154 | 26610 | 26477 | 26372 | 26134 | 3.75 | 3.78 | 3.79 | 3.80 | 3.81 |
| | 14°F(-10.0°C) | 28587 | 28015 | 27875 | 27764 | 27514 | 3.91 | 3.94 | 3.95 | 3.95 | 3.97 |
| | 17°F(-8.3°C) | 29065 | 28484 | 28341 | 28228 | 27974 | 3.96 | 3.99 | 4.00 | 4.01 | 4.02 |
| | 22°F(-5.6°C) | 30299 | 29694 | 29545 | 29427 | 29162 | 3.90 | 3.93 | 3.94 | 3.94 | 3.96 |
| | 27°F(-2.8°C) | 31534 | 30903 | 30749 | 30626 | 30350 | 3.83 | 3.87 | 3.87 | 3.88 | 3.90 |
| | 32°F(-0.0°C) | 32769 | 32113 | 31953 | 31825 | 31539 | 3.77 | 3.80 | 3.81 | 3.82 | 3.83 |
| | 35°F(1.7°C) | 33510 | 32839 | 32675 | 32545 | 32252 | 3.73 | 3.77 | 3.77 | 3.78 | 3.80 |
| | 37°F(2.8°C) | 34919 | 34220 | 34049 | 33913 | 33608 | 3.77 | 3.80 | 3.81 | 3.81 | 3.83 |
| | 42°F(5.6°C) | 38441 | 37672 | 37484 | 37334 | 36998 | 3.85 | 3.88 | 3.89 | 3.90 | 3.91 |
| | 44.6°F(7.0°C) | 39850 | 39053 | 38858 | 38702 | 38354 | 3.89 | 3.92 | 3.92 | 3.93 | 3.95 |
| | 47°F(8.3°C) | 41964 | 41124 | 40919 | 40755 | 40388 | 3.94 | 3.97 | 3.98 | 3.98 | 4.00 |
| | 52°F(11.1°C) | 42294 | 41448 | 41241 | 41076 | 40706 | 3.80 | 3.83 | 3.84 | 3.84 | 3.86 |
| | 57°F(13.9°C) | 42624 | 41772 | 41563 | 41397 | 41024 | 3.66 | 3.69 | 3.70 | 3.71 | 3.72 |
| | 59°F(15.0°C) | 42756 | 41901 | 41692 | 41525 | 41151 | 3.61 | 3.64 | 3.64 | 3.65 | 3.67 |
| 62°F(16.7°C) | 42954 | 42095 | 41885 | 41717 | 41342 | 3.52 | 3.55 | 3.56 | 3.57 | 3.58 | |
| 64.4°F(18.0°C) | 43086 | 42225 | 42014 | 41846 | 41469 | 3.47 | 3.50 | 3.51 | 3.51 | 3.53 | |

HEATING PERFORMANCE 48K

Table 10 – 48K Heating Performance

| AIRFLOW (CFM) | HEATING PERFORMANCE AT INDOOR DRY BULB TEMPERATURE | | | | | | | | | | |
|------------------|--|-------------------------------------|------------------|------------------|--------------------|--------------------|-------------------------------|------------------|------------------|--------------------|--------------------|
| | OUTDOOR DB °F(°C) | TC: Total Heating Capacity (BTU/hr) | | | | | PI: Power Input (kW) | | | | |
| | | Indoor Conditions (DB °F(°C)) | | | | | Indoor Conditions (DB °F(°C)) | | | | |
| | | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) | 60.8°F (16.0°C) | 68°F (20.0°C) | 70°F (21.1°C) | 71.6°F (22.0°C) | 75.2°F (24.0°C) |
| 825 | -13°F(-25.0°C) | 13586 | 13314 | 13247 | 10157 | 10066 | 4.25 | 4.29 | 4.30 | 4.30 | 4.32 |
| | -4°F(-20.0°C) | 23444 | 22975 | 22860 | 17527 | 17370 | 4.96 | 5.00 | 5.01 | 5.02 | 5.04 |
| | 0°F(-17.8°C) | 26233 | 25708 | 25579 | 19612 | 19436 | 5.15 | 5.19 | 5.20 | 5.21 | 5.23 |
| | 5°F(-15.0°C) | 29719 | 29124 | 28979 | 22219 | 22019 | 5.38 | 5.42 | 5.43 | 5.44 | 5.46 |
| | 14°F(-10.0°C) | 32301 | 31655 | 31497 | 24149 | 23932 | 5.27 | 5.31 | 5.32 | 5.33 | 5.35 |
| | 17°F(-8.3°C) | 33162 | 32499 | 32336 | 24793 | 24570 | 5.23 | 5.28 | 5.29 | 5.30 | 5.32 |
| | 22°F(-5.6°C) | 33307 | 32640 | 32477 | 24901 | 24677 | 5.11 | 5.15 | 5.16 | 5.17 | 5.19 |
| | 27°F(-2.8°C) | 33451 | 32782 | 32618 | 25009 | 24784 | 4.98 | 5.02 | 5.03 | 5.04 | 5.06 |
| | 32°F(-0.0°C) | 33595 | 32923 | 32759 | 25117 | 24891 | 4.85 | 4.89 | 4.90 | 4.91 | 4.93 |
| | 35°F(1.7°C) | 33682 | 33008 | 32843 | 25182 | 24955 | 4.77 | 4.81 | 4.82 | 4.83 | 4.85 |
| | 37°F(2.8°C) | 35287 | 34581 | 34409 | 26382 | 26144 | 4.83 | 4.87 | 4.88 | 4.89 | 4.91 |
| | 42°F(5.6°C) | 39301 | 38515 | 38322 | 29382 | 29118 | 4.98 | 5.02 | 5.03 | 5.04 | 5.06 |
| | 44.6°F(7.0°C) | 40906 | 40088 | 39887 | 30583 | 30307 | 5.03 | 5.07 | 5.08 | 5.09 | 5.12 |
| | 47°F(8.3°C) | 43314 | 42448 | 42236 | 32383 | 32091 | 5.12 | 5.16 | 5.17 | 5.18 | 5.20 |
| | 52°F(11.1°C) | 43038 | 42177 | 41967 | 32177 | 31887 | 4.76 | 4.80 | 4.80 | 4.81 | 4.83 |
| | 57°F(13.9°C) | 42762 | 41907 | 41698 | 31970 | 31683 | 4.39 | 4.43 | 4.44 | 4.45 | 4.46 |
| 59°F(15.0°C) | 42652 | 41799 | 41590 | 31888 | 31601 | 4.25 | 4.28 | 4.29 | 4.30 | 4.32 | |
| 62°F(16.7°C) | 42486 | 41637 | 41429 | 31764 | 31478 | 4.03 | 4.06 | 4.07 | 4.08 | 4.10 | |
| 64.4°F(18.0°C) | 42376 | 41529 | 41321 | 31682 | 31397 | 3.89 | 3.92 | 3.92 | 3.93 | 3.95 | |
| 1038 | -13°F(-25.0°C) | 14761 | 14466 | 14393 | 12578 | 12465 | 4.30 | 4.33 | 4.34 | 4.35 | 4.37 |
| | -4°F(-20.0°C) | 25472 | 24963 | 24838 | 21705 | 21510 | 5.01 | 5.05 | 5.06 | 5.07 | 5.09 |
| | 0°F(-17.8°C) | 28502 | 27932 | 27792 | 24287 | 24069 | 5.20 | 5.24 | 5.25 | 5.26 | 5.28 |
| | 5°F(-15.0°C) | 32290 | 31644 | 31486 | 27515 | 27267 | 5.43 | 5.48 | 5.49 | 5.50 | 5.52 |
| | 14°F(-10.0°C) | 35096 | 34394 | 34222 | 29906 | 29637 | 5.32 | 5.37 | 5.38 | 5.39 | 5.41 |
| | 17°F(-8.3°C) | 36031 | 35311 | 35134 | 30703 | 30426 | 5.29 | 5.33 | 5.34 | 5.35 | 5.37 |
| | 22°F(-5.6°C) | 36188 | 35464 | 35287 | 30836 | 30559 | 5.16 | 5.20 | 5.21 | 5.22 | 5.24 |
| | 27°F(-2.8°C) | 36345 | 35618 | 35440 | 30970 | 30691 | 5.03 | 5.07 | 5.08 | 5.09 | 5.11 |
| | 32°F(-0.0°C) | 36502 | 35772 | 35593 | 31104 | 30824 | 4.90 | 4.94 | 4.95 | 4.96 | 4.98 |
| | 35°F(1.7°C) | 36596 | 35864 | 35685 | 31184 | 30903 | 4.82 | 4.86 | 4.87 | 4.88 | 4.90 |
| | 37°F(2.8°C) | 38340 | 37573 | 37385 | 32670 | 32376 | 4.88 | 4.92 | 4.93 | 4.94 | 4.96 |
| | 42°F(5.6°C) | 42701 | 41847 | 41637 | 36386 | 36058 | 5.03 | 5.07 | 5.08 | 5.09 | 5.11 |
| | 44.6°F(7.0°C) | 44445 | 43556 | 43338 | 37872 | 37531 | 5.08 | 5.13 | 5.14 | 5.15 | 5.17 |
| | 47°F(8.3°C) | 47061 | 46120 | 45890 | 40102 | 39741 | 5.17 | 5.21 | 5.22 | 5.23 | 5.26 |
| | 52°F(11.1°C) | 46762 | 45826 | 45597 | 39846 | 39488 | 4.80 | 4.84 | 4.85 | 4.86 | 4.88 |
| | 57°F(13.9°C) | 46462 | 45533 | 45305 | 39591 | 39235 | 4.44 | 4.47 | 4.48 | 4.49 | 4.51 |
| 59°F(15.0°C) | 46342 | 45415 | 45188 | 39489 | 39133 | 4.29 | 4.33 | 4.33 | 4.34 | 4.36 | |
| 62°F(16.7°C) | 46162 | 45239 | 45013 | 39335 | 38981 | 4.07 | 4.10 | 4.11 | 4.12 | 4.14 | |
| 64.4°F(18.0°C) | 46042 | 45121 | 44896 | 39233 | 38880 | 3.92 | 3.96 | 3.96 | 3.97 | 3.99 | |

Table 10 – 48K Heating Performance (Continued)

| | | | | | | | | | | | |
|----------------|----------------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1324 | -13°F(-25.0°C) | 16038 | 15717 | 15639 | 15576 | 15436 | 4.34 | 4.37 | 4.38 | 4.39 | 4.41 |
| | -4°F(-20.0°C) | 27676 | 27122 | 26987 | 26879 | 26637 | 5.06 | 5.10 | 5.11 | 5.12 | 5.14 |
| | 0°F(-17.8°C) | 30968 | 30349 | 30197 | 30076 | 29806 | 5.25 | 5.29 | 5.30 | 5.31 | 5.34 |
| | 5°F(-15.0°C) | 35084 | 34382 | 34210 | 34073 | 33766 | 5.49 | 5.53 | 5.54 | 5.55 | 5.58 |
| | 14°F(-10.0°C) | 38132 | 37370 | 37183 | 37034 | 36701 | 5.38 | 5.42 | 5.43 | 5.44 | 5.46 |
| | 17°F(-8.3°C) | 39148 | 38365 | 38174 | 38021 | 37679 | 5.34 | 5.38 | 5.39 | 5.40 | 5.43 |
| | 22°F(-5.6°C) | 39319 | 38532 | 38340 | 38186 | 37843 | 5.21 | 5.25 | 5.26 | 5.27 | 5.29 |
| | 27°F(-2.8°C) | 39489 | 38700 | 38506 | 38352 | 38007 | 5.08 | 5.12 | 5.13 | 5.14 | 5.16 |
| | 32°F(-0.0°C) | 39660 | 38867 | 38672 | 38517 | 38171 | 4.95 | 4.99 | 5.00 | 5.01 | 5.03 |
| | 35°F(1.7°C) | 39762 | 38967 | 38772 | 38617 | 38269 | 4.87 | 4.91 | 4.92 | 4.93 | 4.95 |
| | 37°F(2.8°C) | 41657 | 40824 | 40620 | 40457 | 40093 | 4.93 | 4.97 | 4.98 | 4.99 | 5.01 |
| | 42°F(5.6°C) | 46395 | 45467 | 45240 | 45059 | 44653 | 5.08 | 5.12 | 5.13 | 5.14 | 5.16 |
| | 44.6°F(7.0°C) | 48290 | 47324 | 47088 | 46899 | 46477 | 5.14 | 5.18 | 5.19 | 5.20 | 5.22 |
| | 47°F(8.3°C) | 51133 | 50110 | 49860 | 49660 | 49213 | 5.22 | 5.27 | 5.28 | 5.29 | 5.31 |
| | 52°F(11.1°C) | 50807 | 49791 | 49542 | 49344 | 48900 | 4.85 | 4.89 | 4.90 | 4.91 | 4.93 |
| | 57°F(13.9°C) | 50482 | 49472 | 49225 | 49028 | 48586 | 4.48 | 4.52 | 4.53 | 4.54 | 4.56 |
| | 59°F(15.0°C) | 50351 | 49344 | 49098 | 48901 | 48461 | 4.33 | 4.37 | 4.38 | 4.39 | 4.40 |
| 62°F(16.7°C) | 50156 | 49153 | 48907 | 48711 | 48273 | 4.11 | 4.15 | 4.15 | 4.16 | 4.18 | |
| 64.4°F(18.0°C) | 50026 | 49025 | 48780 | 48585 | 48148 | 3.96 | 4.00 | 4.00 | 4.01 | 4.03 | |
| 1481 | -13°F(-25.0°C) | 17426 | 17077 | 16992 | 16924 | 16771 | 4.38 | 4.42 | 4.43 | 4.44 | 4.45 |
| | -4°F(-20.0°C) | 30070 | 29469 | 29321 | 29204 | 28941 | 5.11 | 5.16 | 5.17 | 5.18 | 5.20 |
| | 0°F(-17.8°C) | 33647 | 32974 | 32809 | 32678 | 32384 | 5.30 | 5.35 | 5.36 | 5.37 | 5.39 |
| | 5°F(-15.0°C) | 38119 | 37356 | 37170 | 37021 | 36688 | 5.54 | 5.59 | 5.60 | 5.61 | 5.63 |
| | 14°F(-10.0°C) | 41431 | 40603 | 40400 | 40238 | 39876 | 5.43 | 5.47 | 5.49 | 5.50 | 5.52 |
| | 17°F(-8.3°C) | 42535 | 41685 | 41476 | 41310 | 40939 | 5.39 | 5.44 | 5.45 | 5.46 | 5.48 |
| | 22°F(-5.6°C) | 42721 | 41866 | 41657 | 41490 | 41117 | 5.26 | 5.30 | 5.32 | 5.33 | 5.35 |
| | 27°F(-2.8°C) | 42906 | 42048 | 41837 | 41670 | 41295 | 5.13 | 5.17 | 5.18 | 5.19 | 5.21 |
| | 32°F(-0.0°C) | 43091 | 42229 | 42018 | 41850 | 41473 | 5.00 | 5.04 | 5.05 | 5.06 | 5.08 |
| | 35°F(1.7°C) | 43202 | 42338 | 42126 | 41958 | 41580 | 4.92 | 4.96 | 4.97 | 4.98 | 5.00 |
| | 37°F(2.8°C) | 45261 | 44356 | 44134 | 43958 | 43562 | 4.98 | 5.02 | 5.03 | 5.04 | 5.06 |
| | 42°F(5.6°C) | 50409 | 49401 | 49154 | 48957 | 48516 | 5.13 | 5.17 | 5.18 | 5.19 | 5.21 |
| | 44.6°F(7.0°C) | 52468 | 51419 | 51162 | 50957 | 50498 | 5.19 | 5.23 | 5.24 | 5.25 | 5.27 |
| | 47°F(8.3°C) | 55557 | 54446 | 54173 | 53957 | 53471 | 5.28 | 5.32 | 5.33 | 5.34 | 5.36 |
| | 52°F(11.1°C) | 55203 | 54099 | 53828 | 53613 | 53131 | 4.90 | 4.94 | 4.95 | 4.96 | 4.98 |
| | 57°F(13.9°C) | 54849 | 53752 | 53483 | 53269 | 52790 | 4.53 | 4.56 | 4.57 | 4.58 | 4.60 |
| | 59°F(15.0°C) | 54708 | 53613 | 53345 | 53132 | 52654 | 4.38 | 4.41 | 4.42 | 4.43 | 4.45 |
| 62°F(16.7°C) | 54495 | 53405 | 53138 | 52926 | 52449 | 4.15 | 4.19 | 4.20 | 4.20 | 4.22 | |
| 64.4°F(18.0°C) | 54354 | 53267 | 53000 | 52788 | 52313 | 4.00 | 4.04 | 4.04 | 4.05 | 4.07 | |

APPLICATION DATA

Unit Selection

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

Generally there is more load diversification in the residential application (shifting from a low load to a high load). The commercial application

tends to be steadier during the normal day time hours, and will drop to low load levels after normal business hours. If it is anticipated that the system needs to run at the maximum load point for the majority of the time, the next larger system capacity should be selected.

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

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

INDOOR UNIT COMBINATIONS

Indoor Unit Combination for 18K

| ONE UNIT | TWO UNITS | | THREE UNITS |
|----------|-----------|-------|-------------|
| 12 | 6+6 | 9+9 | 6+6+6 |
| 18 | 6+9 | 9+12 | 6+6+9 |
| | 6+12 | 12+12 | 6+6+12 |
| | 6+18 | | 6+9+9 |

Indoor Unit Combination for 27K

| ONE UNIT | TWO UNITS | | THREE UNITS | | FOUR UNITS |
|----------|-----------|-------|-------------|----------|------------|
| 18 | 6+6 | 9+18 | 6+6+6 | 6+12+12 | 6+6+6+6 |
| 24 | 6+9 | 9+24 | 6+6+9 | 6+12+18 | 6+6+6+9 |
| | 6+12 | 12+12 | 6+6+12 | 9+9+9 | 6+6+6+12 |
| | 6+18 | 12+18 | 6+6+18 | 9+9+12 | 6+6+6+18 |
| | 6+24 | 12+24 | 6+6+24 | 9+9+18 | 6+6+9+9 |
| | 9+9 | 18+18 | 6+9+9 | 9+12+12 | 6+6+9+12 |
| | 9+12 | | 6+9+12 | 12+12+12 | 6+6+12+12 |
| | | | 6+9+18 | | 6+9+9+9 |
| | | | | | 6+9+9+12 |
| | | | | | 9+9+9+9 |

Indoor Unit Combination for 36K

| ONE UNIT | TWO UNITS | THREE UNITS | | | FOUR UNITS | | | FIVE UNITS | |
|----------|-----------|-------------|---------|----------|------------|-----------|-------------|-------------|--------------|
| 24 | 6+18 | 6+6+6 | 6+12+12 | 9+12+12 | 6+6+6+6 | 6+6+12+18 | 6+12+12+18 | 6+6+6+6+6 | 6+6+9+9+18 |
| 30 | 6+24 | 6+6+9 | 6+12+18 | 9+12+18 | 6+6+6+9 | 6+6+12+24 | 9+9+9+9 | 6+6+6+6+9 | 6+6+9+12+12 |
| | 9+9 | 6+6+12 | 6+12+24 | 9+12+24 | 6+6+6+12 | 6+6+18+18 | 9+9+9+12 | 6+6+6+6+12 | 6+6+12+12+12 |
| | 9+12 | 6+6+18 | 6+18+18 | 9+18+18 | 6+6+6+18 | 6+9+9+9 | 9+9+9+18 | 6+6+6+6+18 | 6+9+9+9+9 |
| | 9+18 | 6+6+24 | 6+18+24 | 12+12+12 | 6+6+6+24 | 6+9+9+12 | 9+9+12+12 | 6+6+6+9+9 | 6+9+9+9+12 |
| | 9+24 | 6+9+9 | 9+9+9 | 12+12+18 | 6+6+9+9 | 6+9+9+18 | 9+9+12+18 | 6+6+6+9+12 | 6+9+9+9+18 |
| | 12+12 | 6+9+12 | 9+9+12 | 12+12+24 | 6+6+9+12 | 6+9+9+24 | 9+12+12+12 | 6+6+6+9+18 | 6+9+9+12+12 |
| | 12+18 | 6+9+18 | 9+9+18 | 12+18+18 | 6+6+9+18 | 6+9+12+12 | 12+12+12+12 | 6+6+6+12+12 | 6+9+12+12+12 |
| | 12+24 | 6+9+24 | 9+9+24 | | 6+6+6+6 | 6+6+12+18 | 6+12+12+18 | 6+6+6+6+6 | 6+6+9+9+18 |
| | 18+18 | | | | 6+6+6+9 | 6+6+12+24 | 9+9+9+9 | 6+6+6+6+9 | 6+6+9+12+12 |
| | 24+24 | | | | 6+6+6+12 | 6+6+18+18 | 9+9+9+12 | 6+6+6+6+12 | 6+6+12+12+12 |

Indoor Unit Combination for 48K

| ONE UNIT | TWO UNITS | | THREE UNITS | | | | |
|----------|-----------|-------|-------------|---------|---------|----------|----------|
| 30 | 6+24 | 12+30 | 6+6+12 | 6+9+36 | 6+24+24 | 9+12+24 | 12+12+18 |
| 36 | 6+30 | 12+36 | 6+6+18 | 6+12+12 | 6+24+30 | 9+12+30 | 12+12+24 |
| | 6+36 | 18+18 | 6+6+24 | 6+12+18 | 9+9+9 | 9+12+36 | 12+12+30 |
| | 9+18 | 18+24 | 6+6+30 | 6+12+24 | 9+9+12 | 9+18+18 | 12+12+36 |
| | 9+24 | 18+30 | 6+6+36 | 6+12+30 | 9+9+18 | 9+18+24 | 12+18+18 |
| | 9+30 | 18+36 | 6+9+9 | 6+12+36 | 9+9+24 | 9+18+30 | 12+18+24 |
| | 9+36 | 24+24 | 6+9+12 | 6+18+18 | 9+9+30 | 9+18+36 | 12+18+30 |
| | 12+12 | 24+30 | 6+9+18 | 6+18+24 | 9+9+36 | 9+24+24 | 12+24+24 |
| | 12+18 | 24+36 | 6+9+24 | 6+18+30 | 9+12+12 | 9+24+30 | 18+18+18 |
| | 12+24 | 30+30 | 6+9+30 | 6+18+36 | 9+12+18 | 12+12+12 | 18+18+24 |

| FOUR UNITS | | | | | |
|------------|-----------|-----------|------------|-----------|-------------|
| 6+6+6+6 | 6+6+9+36 | 6+9+9+12 | 6+9+18+24 | 9+9+9+12 | 9+12+12+12 |
| 6+6+6+9 | 6+6+12+12 | 6+9+9+18 | 6+9+18+30 | 9+9+9+18 | 9+12+12+18 |
| 6+6+6+18 | 6+6+12+18 | 6+9+9+24 | 6+9+24+24 | 9+9+9+24 | 9+12+12+24 |
| 6+6+6+24 | 6+6+12+24 | 6+9+9+30 | 6+12+12+12 | 9+9+9+30 | 9+12+12+30 |
| 6+6+6+30 | 6+6+12+30 | 6+9+9+36 | 6+12+12+18 | 9+9+9+36 | 9+12+18+18 |
| 6+6+6+36 | 6+6+12+36 | 6+9+12+12 | 6+12+12+24 | 9+9+12+12 | 9+12+18+24 |
| 6+6+9+9 | 6+6+18+18 | 6+9+12+18 | 6+12+12+30 | 9+9+12+18 | 9+18+18+18 |
| 6+6+9+12 | 6+6+18+24 | 6+9+12+24 | 6+12+18+18 | 9+9+12+24 | 12+12+12+12 |
| 6+6+9+18 | 6+6+18+30 | 6+9+12+30 | 6+12+18+24 | 9+9+12+30 | 12+12+12+18 |
| 6+6+9+24 | 6+6+24+24 | 6+9+12+36 | 6+18+18+18 | 9+9+18+18 | 12+12+12+24 |
| 6+6+9+30 | 6+9+9+9 | 6+9+18+18 | 9+9+9+9 | 9+9+18+24 | 12+12+18+18 |

| FIVE UNITS | | | | | |
|------------|-------------|--------------|--------------|---------------|----------------|
| 6+6+6+6+6 | 6+6+6+9+30 | 6+6+9+9+24 | 6+6+12+18+18 | 6+9+12+12+18 | 9+9+9+12+24 |
| 6+6+6+6+9 | 6+6+6+9+36 | 6+6+9+9+30 | 6+9+9+9+9 | 6+9+12+12+24 | 9+9+9+18+18 |
| 6+6+6+6+12 | 6+6+6+12+12 | 6+6+9+12+12 | 6+9+9+9+12 | 6+9+12+18+18 | 9+9+12+12+12 |
| 6+6+6+6+18 | 6+6+6+12+18 | 6+6+9+12+18 | 6+9+9+9+18 | 6+12+12+12+12 | 9+9+12+12+18 |
| 6+6+6+6+24 | 6+6+6+12+24 | 6+6+9+12+24 | 6+9+9+9+24 | 6+12+12+12+18 | 9+12+12+12+12 |
| 6+6+6+6+30 | 6+6+6+12+30 | 6+6+9+12+30 | 6+9+9+9+30 | 9+9+9+9+9 | 9+12+12+12+18 |
| 6+6+6+6+36 | 6+6+6+18+18 | 6+6+9+18+18 | 6+9+9+12+12 | 9+9+9+9+12 | 12+12+12+12+12 |
| 6+6+6+9+9 | 6+6+6+18+24 | 6+6+9+18+24 | 6+9+9+12+18 | 9+9+9+9+18 | |
| 6+6+6+9+12 | 6+6+9+9+9 | 6+6+12+12+12 | 6+9+9+12+24 | 9+9+9+9+24 | |
| 6+6+6+9+18 | 6+6+9+9+12 | 6+6+12+12+18 | 6+9+9+18+18 | 9+9+9+12+12 | |
| 6+6+6+9+24 | 6+6+9+9+18 | 6+6+12+12+24 | 6+9+12+12+12 | 9+9+9+12+18 | |

| SIX UNITS | | | | | |
|--------------|---------------|----------------|-----------------|-----------------|----------------|
| 6+6+6+6+6+6 | 6+6+6+6+9+18 | 6+6+6+9+9+18 | 6+6+9+9+9+12 | 6+9+9+9+9+9 | 9+9+9+9+9+12 |
| 6+6+6+6+6+9 | 6+6+6+6+9+24 | 6+6+6+9+9+24 | 6+6+9+9+9+18 | 6+9+9+9+9+12 | 9+9+9+9+9+18 |
| 6+6+6+6+6+12 | 6+6+6+6+9+30 | 6+6+6+9+12+12 | 6+6+9+9+9+24 | 6+9+9+9+9+18 | 9+9+9+9+12+12 |
| 6+6+6+6+6+18 | 6+6+6+6+12+12 | 6+6+6+9+12+18 | 6+6+9+9+12+12 | 6+9+9+9+12+12 | 9+9+9+12+12+12 |
| 6+6+6+6+6+24 | 6+6+6+6+12+18 | 6+6+6+9+12+24 | 6+6+9+9+12+18 | 6+9+9+9+12+18 | |
| 6+6+6+6+6+30 | 6+6+6+6+12+24 | 6+6+6+12+12+12 | 6+6+9+12+12+12 | 6+9+9+12+12+12 | |
| 6+6+6+6+9+9 | 6+6+6+9+9+9 | 6+6+6+12+12+18 | 6+6+9+12+12+18 | 6+9+12+12+12+12 | |
| 6+6+6+6+9+12 | 6+6+6+9+9+12 | 6+6+9+9+9+9 | 6+6+12+12+12+12 | 9+9+9+9+9+9 | |

UNIT MOUNTING (OUTDOOR)

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

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

See “SPECIFICATIONS” on page 9. For dimensions and weights see “Dimensions and Weights” on page 5.

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

Clearances – Minimum clearances (See Fig. 7 — on page 8 and See Fig. 8 — on page 9), must be provided for airflow. The outdoor units are designed for free-blow applications. Air inlets and outlets should not be restricted.

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

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

System Operating Conditions

| | COOLING | HEATING |
|------------|------------------------|-------------------------|
| Outdoor DB | -22 / 122°F (30/ 50°C) | -22 / 75°F (-30 / 24°C) |

Metering Devices

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

WIRING

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

RECOMMENDED CONNECTION METHOD FOR POWER AND COMMUNICATION WIRING:

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

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

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

WARNING

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.
Wires should be sized based on NEC and local codes.

WARNING

EQUIPMENT DAMAGE HAZARD

Failure to follow this caution may result in equipment damage or improper operation.
Be sure to comply with local codes while running wire from the indoor unit to the outdoor unit.
Every wire must be connected firmly. Loose wiring may cause the terminal to overheat or result in unit malfunction. A fire hazard may also exist. Ensure all wiring is tightly connected.
No wire should touch the refrigerant tubing, compressor or any moving parts.
Disconnecting means must be provided and shall be located within sight and readily accessible from the air conditioner.
Connecting cable with conduit shall be routed through the hole in the conduit panel.

PIPING REQUIREMENTS

Important: Both refrigerant lines must be insulated separately.

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

Refrigerant Piping:

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

| OUTDOOR MODEL | | 37MTRAQ18CA3 | 37MTRAQ27DA3 | 37MTRAQ36EA3 | 37MTRAQ48FA3 | |
|---|---|--------------|--------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| PIPING AND REFRIGERANT INFORMATION | Refrigerant Type | Type | R454B | R454B | R454B | R454B |
| | Charge Amount | lb. (kg) | 3.86(1.75) | 5.29(2.4) | 7.54(3.42) | 9.26(4.2) |
| | Liquid Pipe (size - connection type) | In (mm) | 3x1/4in (3x6.35mm) | 4x1/4in (4x6.35mm) | 5x1/4in (5x6.35mm) | 6x1/4in (5x6.35mm) |
| | Suction Pipe (size - connection type) | In (mm) | 3x3/8in (3x9.52mm) | 3x3/8in+1x1/2in (3x9.52mm+1x12.7 mm) | 3x3/8in+2x1/2in (3x9.52mm+2x12.7 mm) | 4x3/8in+2x1/2in (4x9.52mm+2x12.7 mm) |
| | Min. Piping Length per each indoor unit | ft. (m) | 9.8 (3) | 9.8 (3) | 9.8 (3) | 9.8 (3) |
| | Standard Piping Length per each indoor unit | ft. (m) | 24.6 (7.5) | 24.6 (7.5) | 24.6 (7.5) | 24.6 (7.5) |
| | Max. outdoor-indoor height difference (OU higher than IU) | ft. (m) | 49.21(15) | 49.21(15) | 49.21(15) | 49.21(15) |
| | Max. outdoor-indoor height difference (IU higher than OU) | ft. (m) | 49.21(15) | 49.21(15) | 49.21(15) | 49.21(15) |
| | Max. Piping Length with no additional refrigerant charge per System (Standard Piping length x No. of Zones) | ft. (m) | 73.8 (22.5) | 98.4(30) | 123(37.5) | 147.6(45) |
| | Additional refrigerant charge (Standard Piping length X # of Zones) | Oz/ft (g/m) | 0.16(15) | 0.16(15) | 0.16(15) | 0.16(15) |
| | Max. Length per each indoor unit | ft. (m) | 98.4(30) | 114.8(35) | 114.8(35) | 114.8(35) |
| | Total Maximum Piping Length per system | ft. (m) | 196.9(60) | 262.5(80) | 262.5(80) | 262.5(80) |
| Number of IDU | ft. (m) | 3 | 4 | 5 | 6 | |

General Guidelines:

- The outdoor units are shipped with a full charge of R-454B refrigerant. For runs over the Maximum Piping Length with no additional refrigerant charge per system, consult "Refrigerant Piping:" on page 50 for proper charge adjustments.
- Refrigerant lines should not be buried in the ground. If it is necessary to bury the lines, do not bury more than 36 inches (914 mm). Provide a minimum of 6 inch (152 mm) vertical rise to the service valves to prevent refrigerant migration.
- Both lines must be insulated. Use a minimum of ½-inch (12.7 mm) thick insulation. Closed-cell insulation is recommended in all long-line applications.
- Special consideration should be given to isolating the interconnecting tubing from the building structure. Isolate the tubing so vibration or noise does not transmit into the structure.

Long-Line Applications

- No change in line sizing is required.

NOTE: Multi-zone outdoor unit compatibility can support up to two (2) AHUs per unit. The combination of up to two (2) AHUs extends to only the 18K and 24K AHU models. In the case that two (2) AHUs are connected to any multi-zone system, no other units may be connected to the outdoor unit, regardless of remaining ports or capacity availability. See "LEGEND" on page 31 for unit selection guide criteria.

When the 30K or 36K AHU is utilized in multi-zone 48K ODU applications, 500 grams (17.6 oz) of additional refrigerant charge must be added to the system.

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

Drain Connections

Install drains that meet the local sanitation codes.

Control System

The 37MTRAQ unit is equipped with a microprocessor control to operate the system and give optimum levels of comfort and operating efficiency. There are microprocessor boards and thermistors located in both the indoor and outdoor units. The thermistors monitor the system operation and control the operating mode.

Sequence of Operation

NOTE: Simultaneous heating and cooling is not allowed.

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

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

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

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

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

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

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



WARNING

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

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

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

AIRFLOW DATA

| UNIT SIZE | 18K | 27K | 36K | 48K |
|---------------|------------|---------|---------|---------|
| | (208/230V) | | | |
| OUTDOOR (CFM) | 1764.71 | 2129.41 | 2147.06 | 4500.00 |

SOUND PRESSURE

| SYSTEM SIZE | | 18K | 27K | 36K | 48K |
|------------------------------|-------|-------------|-----|------|-----|
| | | (208/230 V) | | | |
| Outdoor Sound Pressure Level | dB(A) | 59 | 62 | 62.5 | 62 |

OUTDOOR UNIT SOUND PRESSURE TEST CONDITIONS

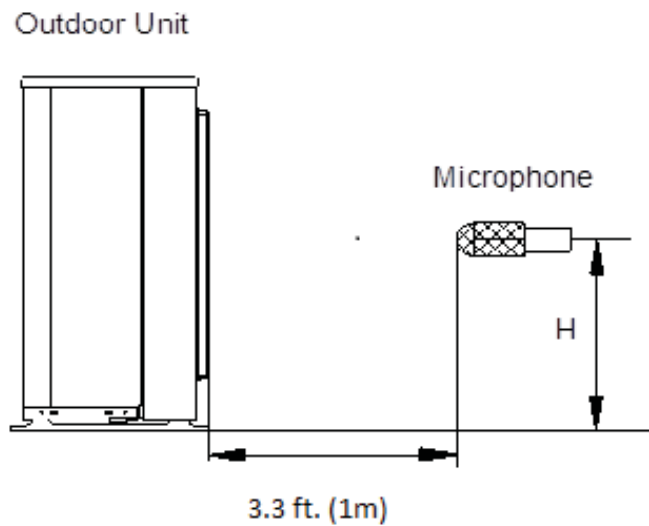


Fig. 9 — Outdoor Unit Sound Pressure Test Conditions

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

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

ELECTRICAL DATA

| ELECTRICAL DATA | | | | | |
|--|--------------|------------|------------|------------|------------|
| OUTDOOR UNIT | | 18K | 27K | 36K | 48K |
| | | (208/230V) | (208/230V) | (208/230V) | (208/230V) |
| Minimum Circuit Ampacity (MCA) | A | 16 | 23 | 30.5 | 40 |
| Maximum Overcurrent Protection (MOP) | A | 20 | 25 | 35 | 45 |
| Voltage-Phase-Frequency * | 208/230-1-60 | | | | |
| Max – Min Voltage Range | 253-187 | | | | |
| COOLING (WITH AF HIGH WALL IDU) | | | | | |
| Running current | (A) | 6.9 | 11.0 | 17.0 | 21.0 |
| Power consumption | (W) | 1539 | 2514 | 3789 | 4800 |
| HEATING (WITH AF HIGH WALL IDU) | | | | | |
| Running current range | (A) | 7.0 | 10.3 | 17.1 | 19.5 |
| Power consumption | (W) | 1552 | 2345 | 3908 | 4400 |

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

LEGEND

FLA - Full Load Amps
MCA - Minimum Circuit Amps
MOCP - Maximum Over Current Protection
RLA - Rated Load Amps

REFRIGERANT CYCLE DIAGRAMS

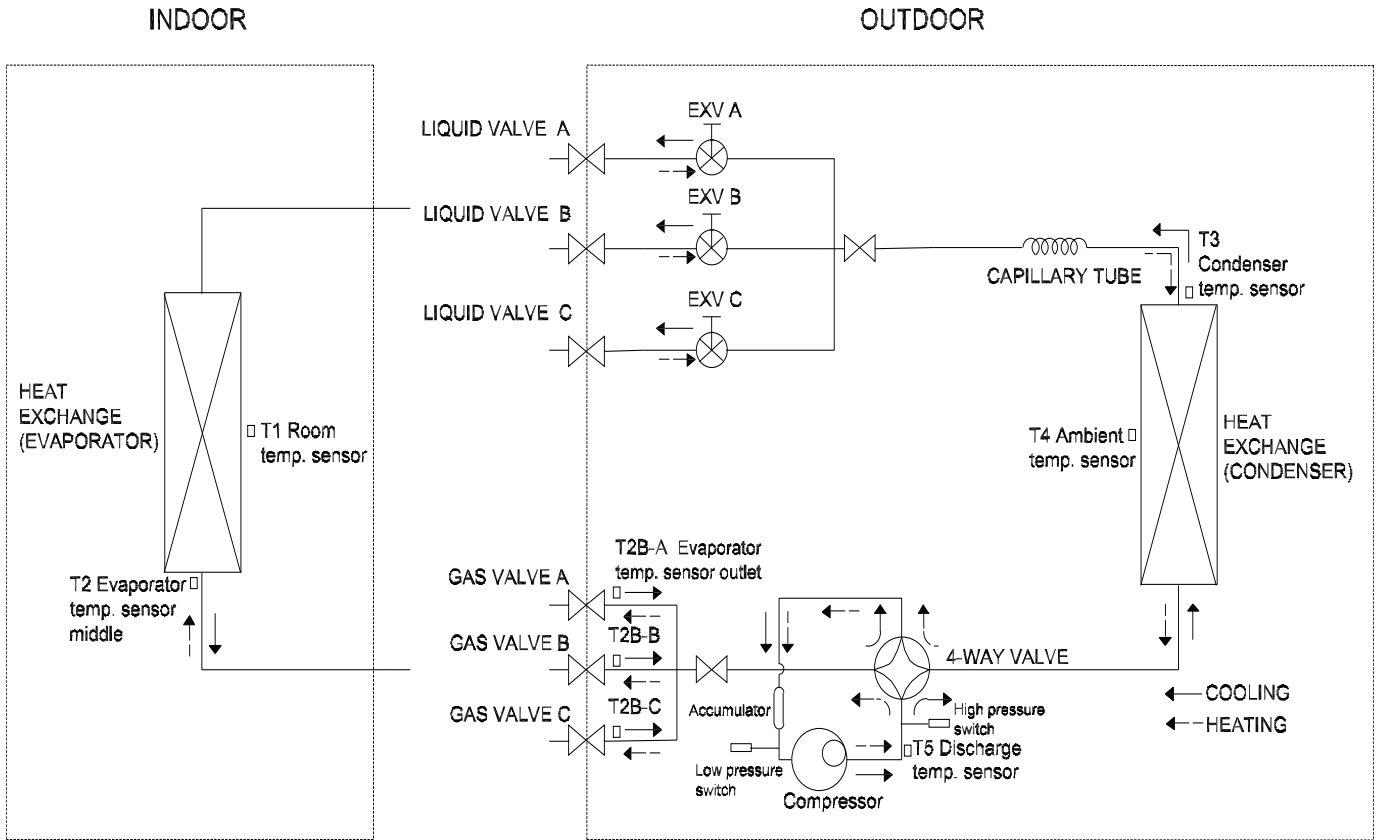


Fig. 10 – 18K Unit

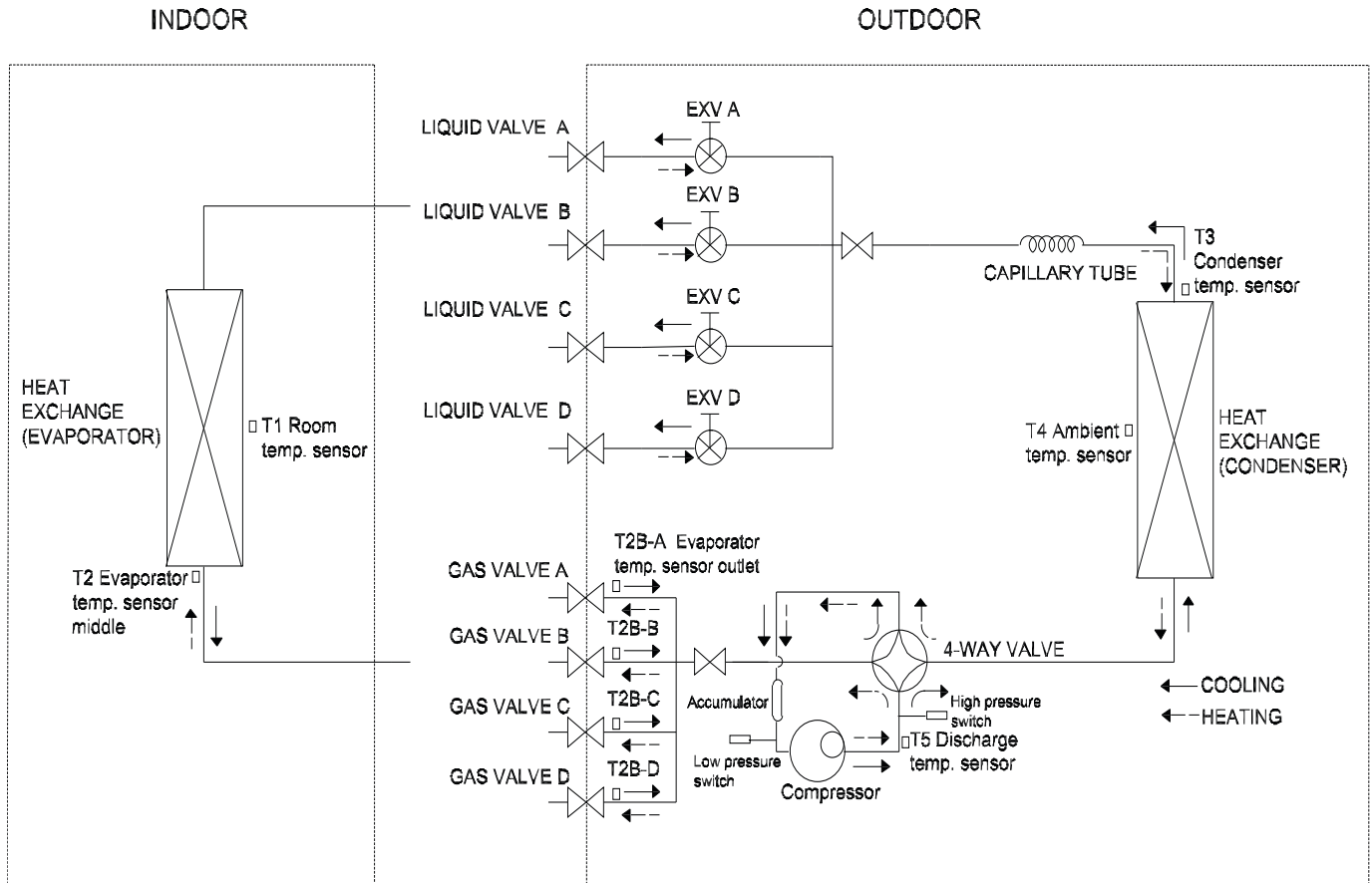


Fig. 11 – 27K Unit

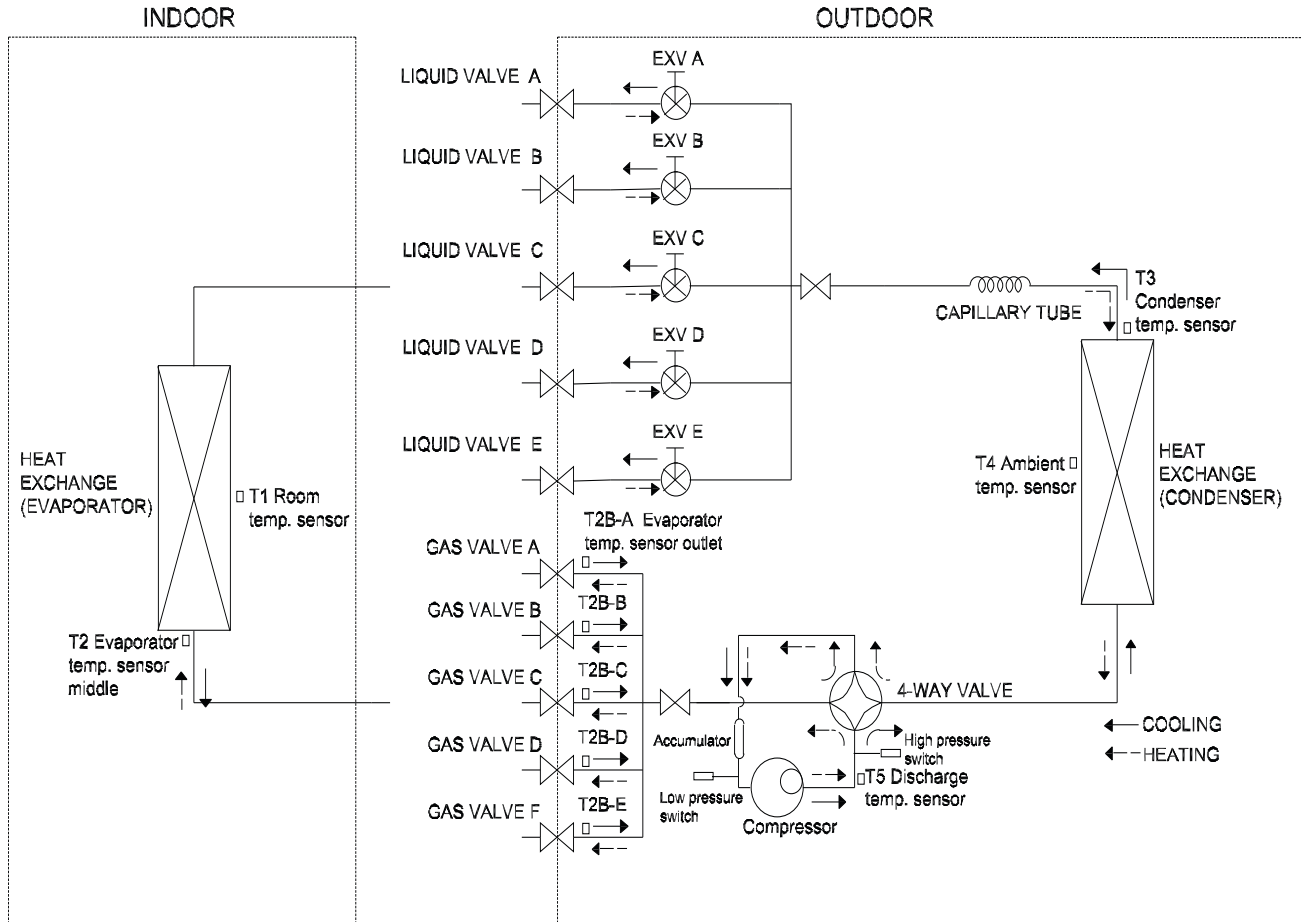


Fig. 12 – 36K Unit

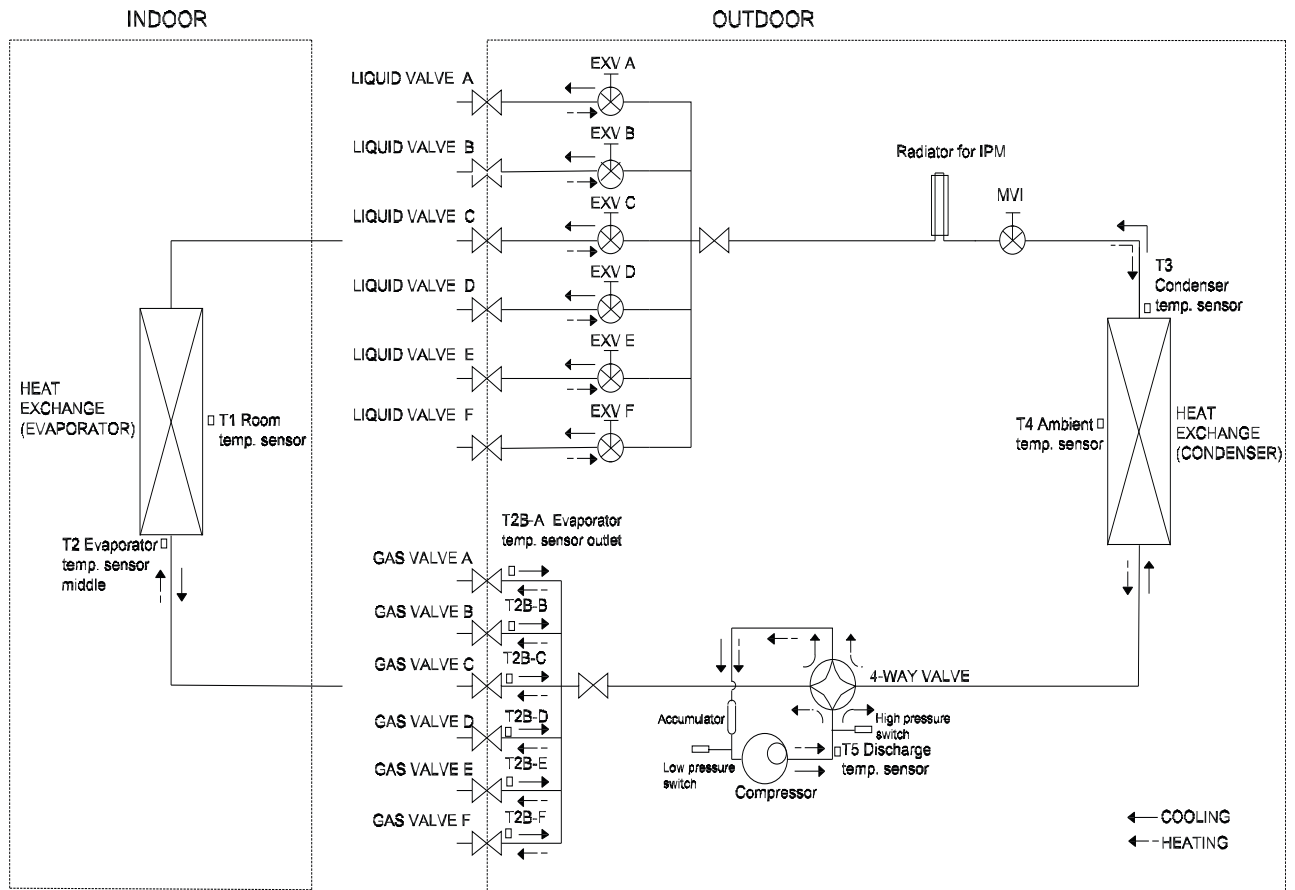


Fig. 13 – 48K Unit

WIRING DIAGRAMS

18K

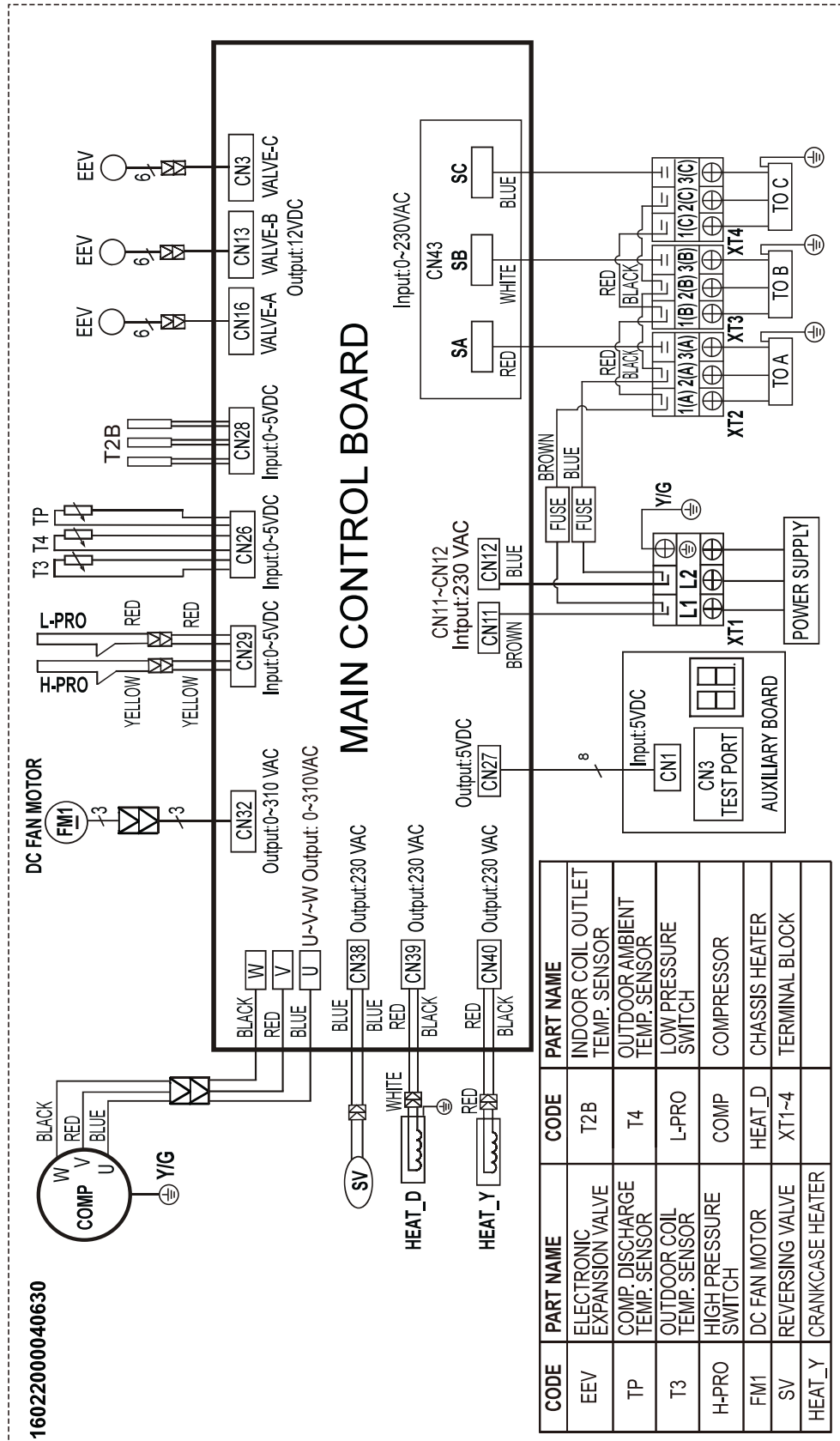


Fig. 14 — Wiring Diagram 18K

WIRING DIAGRAMS (CONT)

27K

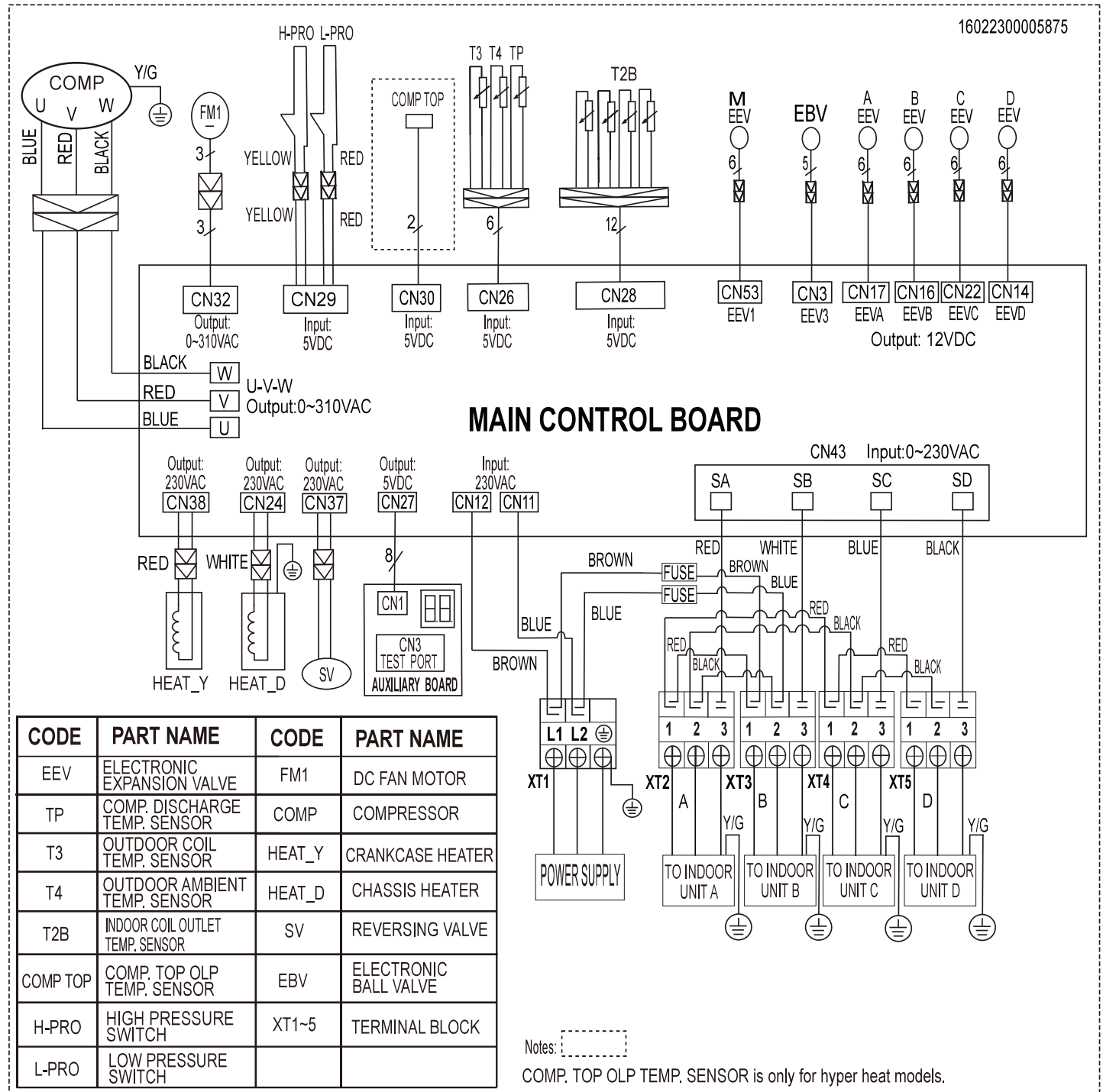


Fig. 15 — Wiring Diagram 27K

WIRING DIAGRAMS (CONT)

36K

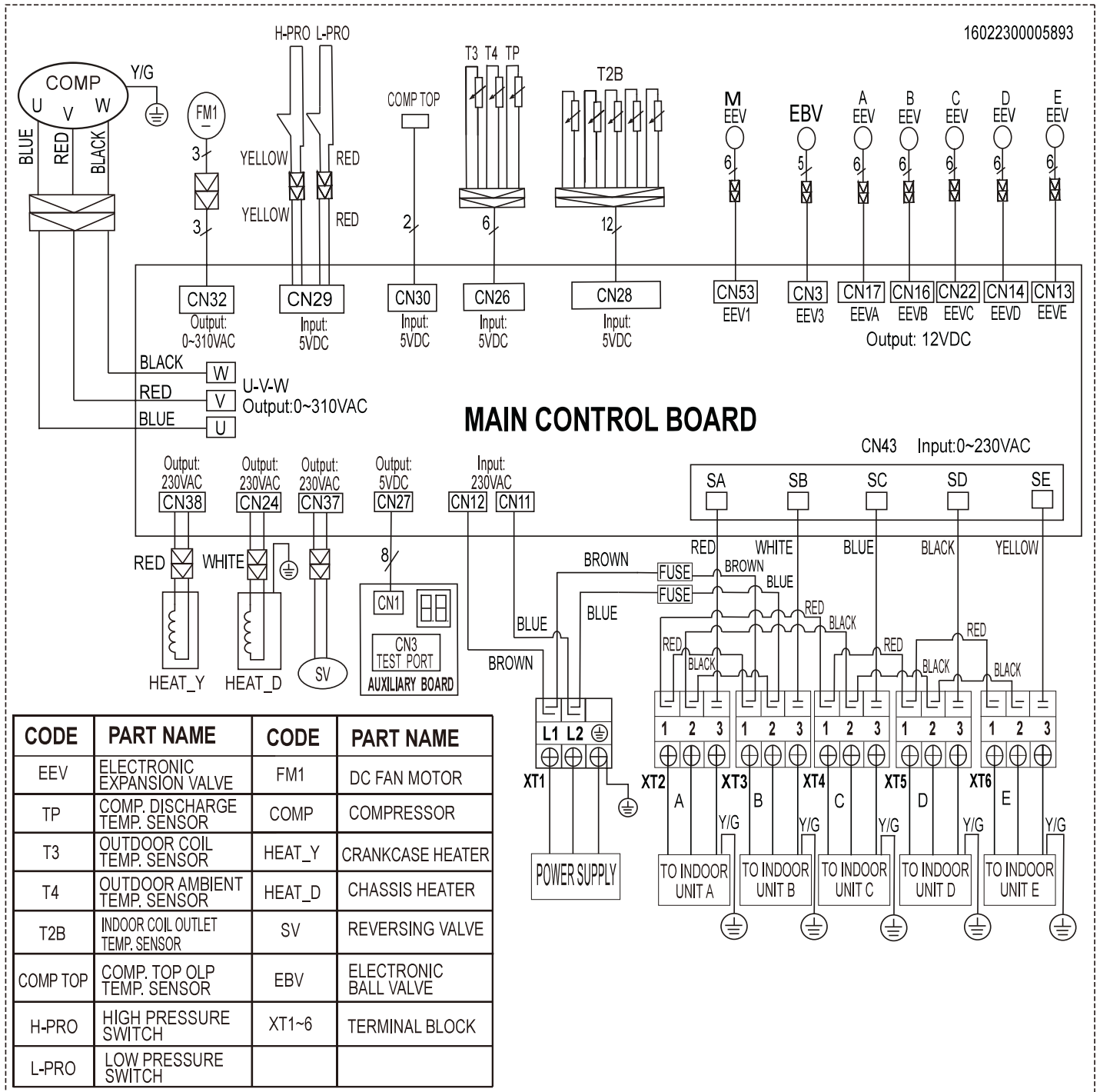
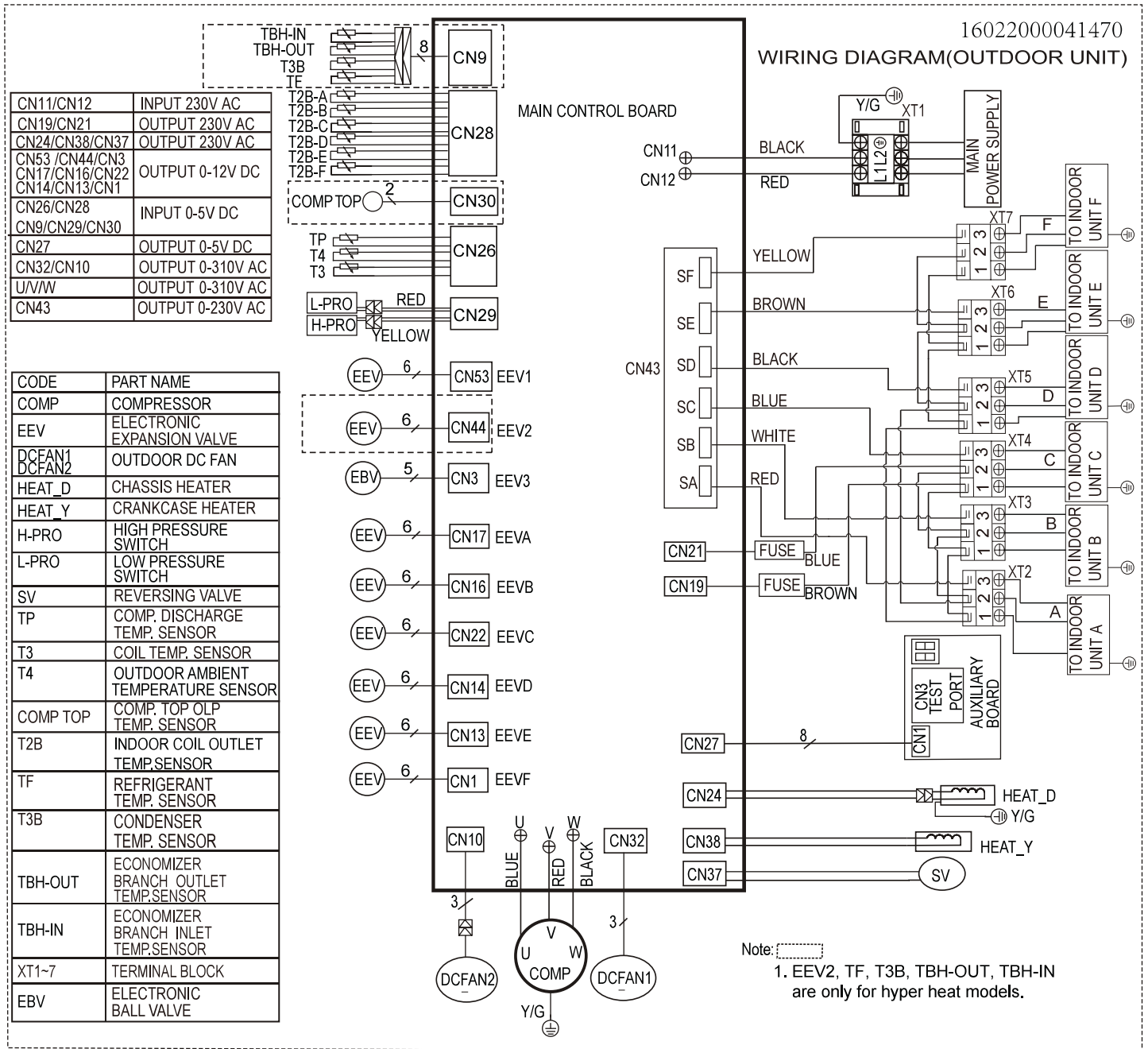


Fig. 16 — Wiring Diagram 36K

WIRING DIAGRAMS (CONT)

48K



MULTI-ZONE HEAT PUMP HORIZONTAL DISCHARGE OUTDOOR DUCTLESS SYSTEM

Size Range: 1 1/2, 2, 3, and 4 Ton Nominal Cooling and Heating Capacity
Model Number: 37MTRAQ

Part 1 - General

1.01 System Description

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

1.02 Agency Listings

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

1.03 Delivery, Storage, And Handling

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

1.04 Warranty (For Inclusion By Specifying Engineer)

Part 2 - Products

2.01 Equipment

1. General:

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

2. Unit Cabinet:

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

3. Fans:

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

4. Compressor:

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

5. Outdoor Coil:

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

6. Refrigerant Components:

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

7. Safeties:

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

- a. Compressor discharge over temperature protection.
- b. System low voltage protection.
- c. Compressor overload protection.
- d. Compressor over current protection.
- e. IPM module protection.

8. Electrical Requirements:

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