



Split System Cooling Units

Split System Cooling Units
TTA075A-TTA200B
Air Handlers
TWE050A-TWE200B
50 Hz





Introduction

Split System Cooling Units . . . Designed With Your Needs In Mind.



The Trane reputation for quality and reliability in air conditioning continues with the Odyssey™ family of light commercial split systems. Trane paid attention to your needs to make sure you get a system that will meet your job requirements every time...and at a competitive price.

Couple Trane's reputation for quality and reliability in split system air conditioners with efficiency, flexibility and installation ease...and you have systems that will give you "Simply the Best Value".

Manufacturing Control

Trane's exclusive control over the design and manufacturing of all major components is unique in the industry. This approach assures us total control over both the quality and reliability of these components. And allows us to custom match components to deliver the best in split system performance.

Designing the Details

Careful attention was given to designing the details — from control wiring to the access panels. Odyssey units feature time-saving colored and numbered wiring and removable panels which allow complete access to all major components and controls. All outdoor units feature external high and low pressure switches for easy diagnosing and servicing of the unit. And service valves with gauge ports are provided.

Standardized Cabinets

In addition all cabinets have been standardized; so when you are servicing an outdoor unit or an air handler all components are in the same location from unit to unit.

Filters

The TWE050, 075, and 100 air handlers are supplied with 1" (25.4 mm) throwaway filters as standard. The filter racks were designed to easily convert for installation of 2" (50.8 mm) filters. The TWE155 and 200 air handlers are

supplied with 2" (50.8 mm) filters as standard.

UL Listed and ARI Certified

Trane meets or exceeds all nationally recognized agency safety and design standards. Each condensing unit is UL designed, approved, and labeled in accordance to UL Standards: UL 1995 for central cooling air conditioners, refrigeration and air conditioning condensing and compressor units. Each air handler is designed, approved and labeled in accordance to UL 465 and UL 1995 standard for heat pumps. Each unit is certified in accordance with ARI Standard 340/360 or 365.

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Features and Benefits



Condensing Unit Options

The Odyssey split system product line includes condensing units in single, unloading and dual compressor options.

The TTA075A, 085A and 100A single compressor models feature single refrigeration circuitry lowering job installation costs by requiring only one set of refrigerant lines. These units are ideal for the low cost, new construction jobs as well as renovation and replacement buildings.

Equally important, Odyssey offers a single refrigerant circuit/capacity unloading option in TTA100C and 155C condensing units. These unloading units feature dual manifolded scroll compressors. They offer an excellent opportunity for both new construction and replacement jobs with two stages of capacity modulation and a single refrigeration circuit.

In addition, Odyssey includes a TTA100B, 100C, 125B, 155B, 155C and 200B dual scroll compressor unit to give true stand-by protection; if one compressor fails, the second will automatically start-up. Also, the first compressor can be serviced without

shutting down the unit since refrigerant circuits are independent.

Dual compressors are not just for protection, they also save energy costs. Most buildings are designed for the peak load requirements yet the building usually operates at less than peak load. During light load conditions only one compressor functions to maintain the space comfort thus reducing the need for energy.

Trane split systems have been specified in thousands of applications and you'll find Odyssey will win you even more jobs with it's smaller, more manageable cabinet. This lighter, compact design will save time and money for rigging and installation. And the compactness will permit Trane's unit to replace almost any unit — effortlessly.

Low Ambient Cooling Operation

Each condensing unit can operate to 50°F (10°C) as standard. An accessory Head Pressure Control gives you the capability to operate to 0°F (-17.8°C). All condensing units offer these accessories:

- Head Pressure Control
- Coil Guard Kits
- Isolators both Rubber-in-Shear and Spring Type
- Anti-Short-Cycle Kit
- Time Delay Relay
- Black Epoxy Coated Coil

Air Handlers Offer More Flexibility

Flexibility is a key to meeting changing market requirements. Odyssey split systems offer not only various compressor options but also convertible air handlers. The air handlers can be installed either vertically in a mechanical room or horizontally above a ceiling. And it doesn't require any removal of panels to make either airflow application work. These air handlers have a double sloped condensate drain pan that allows for either airflow configuration. And the drain pan can easily be removed for cleaning. All the air handlers feature factory-installed belt drive and ball bearing evaporator fans with adjustable sheaves for maximum airflow performance.

Features and Benefits

Odyssey air handler versatility is further increased by a complete line of accessories designed to match and install smoothly:

- Discharge Plenum and Grille
- Return Grille
- Subbase
- Electric Heaters
- High Static Evaporator Motor
- Isolators both Rubber-in-Shear and Spring Type
- A Full Line of Thermostats
- Outdoor Thermostat



Odyssey — A Complete Split System

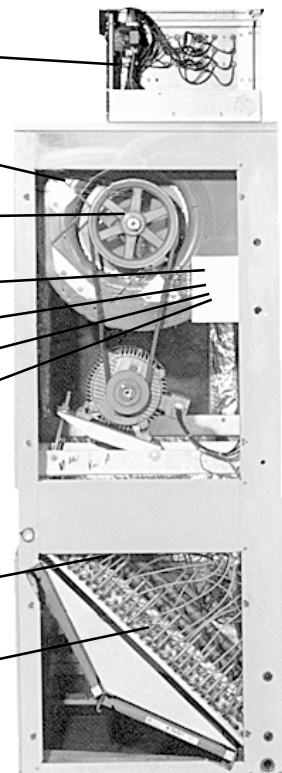
Odyssey delivers the flexibility to select a complete system that meets your particular job requirements. Air handlers are designed, tested, and rated with outdoor units to let you select the proper match between capacity and load. Heat pumps can also be matched with Trane built-up air handlers. Also, these matched systems can be quickly engineered for specific applications using Trane's computerized selection and load programs.

Odyssey Lowers Installation Costs

Your installation costs are reduced with Odyssey. Both outdoor units and air handlers are factory packaged and assembled so jobsite installation is quick and easy. You get a complete unit with all the components, controls and the internal wiring factory ready for a smooth jobsite start-up.

Unlike some competitive models the following components are factory-installed in Trane air handlers:

- Single Point Power Entry
- Blower wheel and housing
- Evaporator motor with sheaves and pulleys
- Low Voltage Terminal Board
- Transformer (Most Models)
- Contactor
- Fan relay
- DX Coil with complete refrigeration circuitry
- Expansion Valve and Check Valves



There's no need to install components and put together the air handler on the job. This provides you with less labor cost and fewer chances for installation errors which cause callbacks. All this means saving you money both in replacement and new construction applications.

Application Considerations

Application of this product should be within the catalogued airflow and performance considerations.

Clearance Requirements

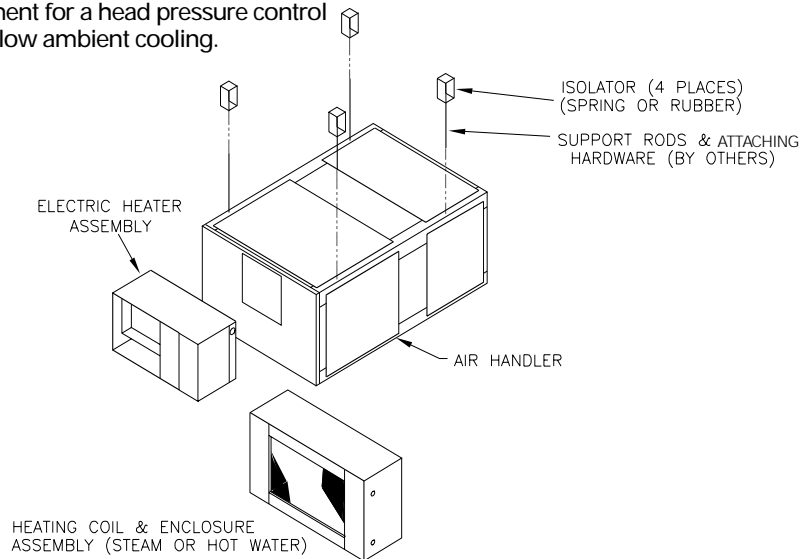
The recommended clearances identified with unit dimensions should be maintained to assure adequate serviceability, maximum capacity and peak operating efficiency. Actual clearances which appear inadequate should be reviewed with the local Trane Representative.

180° Blower Rotation

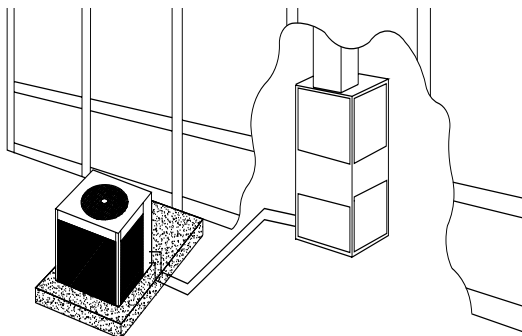
The TWE050, 075, and 100 air handler blower section can be rotated 180° to change the discharge pattern. This modification must be done in the field and requires an addition of kit. See unit installer's guide.

Low Ambient Cooling

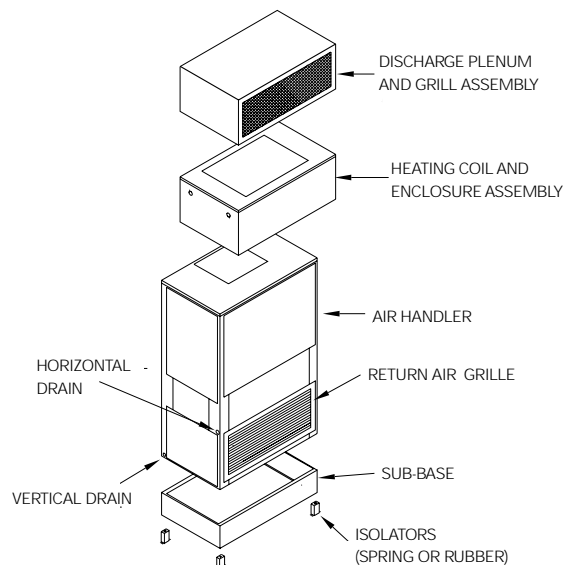
As manufactured, these units can operate to 50° F (10°C) in the cooling mode of operation. An accessory head pressure control will allow operation to 0° F (-17.8°C) outdoor ambient. When using these units with control systems such as bypass changeover Variable Air Volume, make sure you consider the requirement for a head pressure control to allow low ambient cooling.



Typical Horizontal Air Handler Application



Typical Split System Application



Typical Vertical Air Handler Application

Selection Procedure

Cooling Capacity

Step 1 — Calculate the building's total and sensible cooling loads at design conditions. Use the Trane calculation form or any other standard accepted method.

Step 2 — Size the equipment using Table PD-1. Match the cooling loads at design conditions.

Example: The following are the building cooling requirements

- a**
Electrical Characteristics: 380-415/50/3
- b**
Summer Design Conditions: Entering
Evaporator Coil: 80 DB/67 WB
(27 DB/19 WB C)
Outdoor Ambient: 95° F (35° C)
- c**
Total Cooling Load: 75 MBh (22 kW)
- d**
Sensible Cooling Load: 53 MBh
(15.5 kW)
- e**
Airflow: 3000 cfm (5097 m³/h)
External Static Pressure: 0.77 in.
(192.5 Pa)

Table PD-1 shows that a TTA075A matched with a TWE075A has a gross cooling capacity of 86.5 MBh (25.3 kW) and 64.4 MBh (18.8 kW) sensible capacity at 95 DB (35° C) ambient and 3000 cfm (5097 m³/h) and 80 DB/67 WB (27 DB/19 WB) air entering the evaporator.

To find the net cooling capacities, fan motor heat must be subtracted. Determine the total unit static pressure:

| | In. | Pa |
|-----------------------|------|-----|
| External Static | 0.77 | 193 |
| Standard Filter | 0.10 | 25 |
| Supplementary | | |
| Electric Heat | 0.23 | 57 |
| Total Static Pressure | 1.10 | 275 |

Note: The Evaporator Fan Performance Table has included the effect of a 1 in. (250 Pa) filter already. Therefore, the actual Total Static Pressure is 1.10 - 0.10 = 1.00 in. (275 - 25 = 250 Pa).

With 3000 cfm (5097 m³/h) and 1.00 inches (250 Pa), Table PD-29 shows a 1.17 bhp (0.8 kW).

Note: The formula below the table can be used to calculate Fan Motor Heat,

$$3.5 \times \text{Bhp} = \text{MBh}$$

$$3.5 \times 1.17 = 4.10 \text{ MBh}$$

$$(1.375 \times (\text{kW})) = \text{kW}$$

$$(1.375 \times 0.8 = 1.1 \text{ kW})$$

$$\text{Net Total Cooling Capacity} =$$

$$86.5 \text{ MBh} - 4.10 = 82.4 \text{ MBh}$$

$$18.8 - 1.1 = 17.7 \text{ kW}$$

$$\text{Net Sensible Cooling Capacity} =$$

$$64.4 \text{ MBh} - 4.10 = 60.3 \text{ MBh}$$

$$25.3 - 1.1 = 24.2 \text{ kW}$$

Heating Capacity

Step 1 — Calculate the building heating load.

Step 2 — Size the system heating capacity to match the calculated building heating load. The following are building heating requirements:

- a**
Total Heating Load at 97.0 MBh (28.4 kW)
- b**
3000 cfm (5097 m³/h)
- c**
Electric Supplementary Heaters

Table PD-39, the 34.88 kW heater has a capacity of 119,045 btu. From Table ED-5, the 34.88 kW indicates the heater model number is BAYHTRL435A. This heater will adequately cover the building's heating requirement.

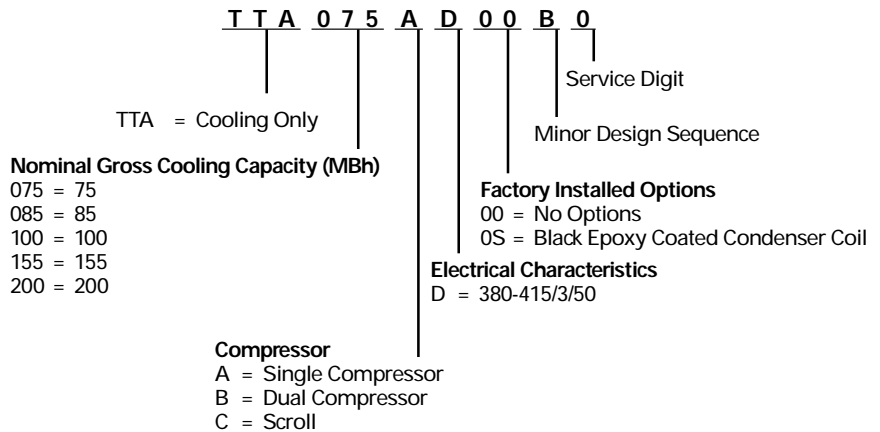
Air Delivery Selection

External static pressure drop through the air distribution system has been calculated to be 0.77 inches (192.5 Pa) of water gauge. From Table PD-38 static pressure drop through the electric heater is 0.23 inches (57.5 Pa) of water (0.77 + 0.23 = 1.00 in.) (192.5 + 57.5 = 250 Pa). Enter Table 39-1 for TWE075AD at 3000 cfm (5097 m³/h) and 1.00 static pressure (250 Pa). The standard motor at 821 rpm will give the desired airflow.

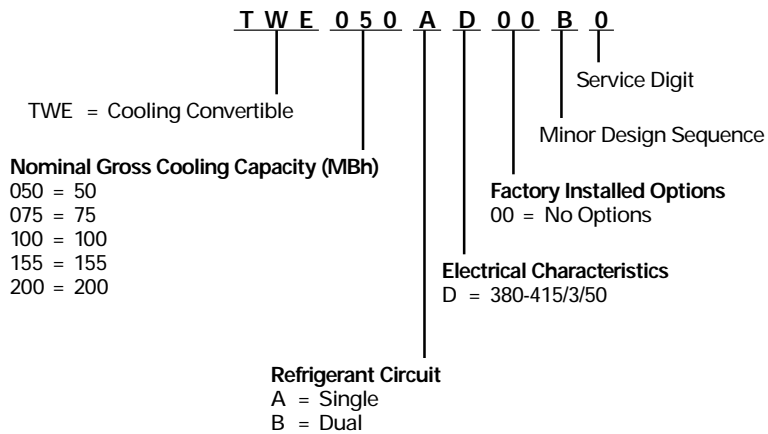


Model Number Description

CONDENSING UNIT MODEL NOMENCLATURE



AIR HANDLER MODEL NOMENCLATURE





General Data

Condensing Unit

Table GD-1 — General Data

| | TTA075A | TTA085A | TTA100A | TTA100B |
|---|-------------------|-------------------|-------------------|-------------------------|
| Cooling Performance ¹ | | | | |
| Gross Cooling Capacity, btu (kW) | | | | |
| Matched Air Handler (kW) | 84,000(24.60) | 90,000(26.35) | 114,000(33.38) | 112,000(32.79) |
| Condensing Unit Only ² (kW) | 84,000(24.60) | 93,000(27.23) | 114,000(33.38) | 112,000(32.79) |
| ARI Net Cooling Capacity ³ (kW) | 81,000(23.72) | 88,000(25.77) | 110,000(32.21) | 108,000(31.62) |
| System Power kW | 7.81 | 7.867 | 10.27 | 10.06 |
| Condensing Unit Power kW | 7.05 | 7.07 | 9.26 | 9.13 |
| Compressor | | | | |
| Number | 1 | 1 | 1 | 2 |
| Type | Trane 3-D® Scroll | Trane 3-D® Scroll | Trane 3-D® Scroll | Trane Climatuff™ Scroll |
| No. Motors (each) | 1 | 1 | 1 | 1 |
| Motor HP (kW) | 6.25 (4.7) | 6.91(5.15) | 8.33(6.21) | 4.15(3.1) |
| Motor RPM | 2875 | 2875 | 2875 | 2875 |
| ARI Sound Rating (Bels) ⁴ | 8.8 | 8.8 | 8.8 | 8.8 |
| System Data ⁵ | | | | |
| No. Refrigerant Circuits | 1 | 1 | 1 | 2 |
| Suction Line in. (mm) OD | 1.375(34.9) | 1.375(34.9) | 1.375(34.9) | 1.125(28.58) |
| Liquid Line in. (mm) OD | 0.500(12.7) | 0.500(12.7) | 0.500(12.7) | 0.375(9.53) |
| Outdoor Coil — Type | Plate Fin | Plate Fin | Plate Fin | Plate Fin |
| Tube Size in. (mm) OD | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) | 0.375(9.53) |
| Face Area, sq. ft (m ²) | 19.25(1.79) | 24.0(2.23) | 24.0(2.23) | 24.0(2.23) |
| Rows | 2 | 2 | 2 | 2 |
| Fins Per Inch | 18 | 20 | 20 | 20 |
| Outdoor Fan Type | Propeller | Propeller | Propeller | Propeller |
| No. Used | 1 | 1 | 1 | 1 |
| Diameter in. (mm) | 26.00(660.4) | 28.00(711.2) | 28.00(711.2) | 28.00(711.2) |
| Drive Type | Direct | Direct | Direct | Direct |
| No. Speeds | 1 | 1 | 1 | 1 |
| CFM ⁶ (m ³ /h) | 4700(7985.30) | 8120(13795.0) | 8120(13795.0) | 8120(13795.0) |
| No. Motors | 1 | 1 | 1 | 1 |
| Motor HP (kW) | 0.33(.25) | 0.75(.56) | 0.75(.56) | 0.75(.56) |
| Motor RPM | 925 | 925 | 975 | 975 |
| R-22 Refrigerant Charge, lb ⁷ (kg) | 16.0(7.26) | 19.0(8.62) | 19.0(8.62) | 21.0(9.53) |

Notes:

1. Cooling Performance is rated at 95°F (35°C) ambient, 80°F (26.7°C) entering dry bulb, 67°F (19.4°C) entering wet bulb and nominal cfm listed. ARI rating cfm is 350 cfm/ton for this product. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment certification program, which is based on ARI Standard 340/360 or 365-00.
2. Condensing Unit Only Gross Cooling Capacity rated at 45°F (7.2°C) saturated suction temperature and at 95°F (35°C) ambient.
3. ARI Net Cooling Capacity is calculated with matched blower coil and 25 ft (7.6 m) of 1.375, 0.500 OD interconnecting tubing. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures. Integrated Part Load Value is based on ARI Standard 340/360 or 365-00. Units are rated at 80°F (26.7°C) ambient, 80°F (26.7°C) entering dry bulb, and 67°F (19.4°C) entering wet bulb at ARI rated cfm.
4. Sound Rating shown is tested in accordance with ARI Standard 270.
5. System Data based on maximum linear length 80 ft (26.7 m) Maximum lift: suction 60 ft (18.3 m) liquid 60 ft (18.3 m) For greater lengths, refer to refrigerant piping applications manual.
6. Outdoor Fan cfm is rated with standard air-dry coil outdoor.
7. Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft (7.6 m) of interconnecting refrigerant lines.



General Data

Condensing Unit

Table GD-2— General Data

| | TTA100C | TTA125B | TTA155B | TTA155C | TTA200B |
|---|----------------------------|-------------------------|-------------------|-------------------|-------------------|
| Cooling Performance ¹ | | | | | |
| Gross Cooling Capacity, btu (kW) | | | | | |
| Matched Air Handler | 113,000(33.09) | 134,000(39.24) | 166,000(48.60) | 167,000(48.90) | 220,000(64.42) |
| Condensing Unit Only ² | 113,000(33.09) | 130,000(38.06) | 166,000(48.60) | 167,000(48.90) | 220,000(64.42) |
| ARI Net Cooling Capacity ³ | 110,000(32.21) | 130,000(38.06) | 160,000(46.85) | 161,000(47.14) | 212,000(62.07) |
| System Power kW | 10.34 | 12.63 | 16.18 | 16.17 | 21.22 |
| Condensing Unit Power kW | 9.31 | 11.52 | 14.33 | 14.28 | 18.56 |
| Compressor | | | | | |
| Number | 2 | 2 | 2 | 2 | 2 |
| Type | Manifolded Copeland Scroll | Trane Climatuff™ Scroll | Trane 3-D® Scroll | Trane 3-D® Scroll | Trane 3-D® Scroll |
| No. Motors (each) | 1 | 1 | 1 | 1 | 1 |
| Motor HP (kW) | 4.16(3.10) | 5.20(3.9) | 6.25(4.7) | 6.25(4.7) | 8.33(6.21) |
| Motor RPM | 2875 | 2875 | 2875 | 2875 | 2875 |
| ARI Sound Rating (Bels) ⁴ | 8.8 | 8.8 | 8.8 | 8.8 | 8.8 |
| System Data ⁵ | | | | | |
| No. Refrigerant Circuits | 1 | 2 | 2 | 1 | 2 |
| Suction Line in. (mm) OD | 1.375(34.9) | 1.125(28.58) | 1.375(34.9) | 1.625(41.3) | 1.375(34.9) |
| Liquid Line in. (mm) OD | 0.500(12.7) | 0.375(9.53) | 0.500(12.7) | 0.625(15.9) | 0.500(12.7) |
| Outdoor Coil — Type | Plate Fin | Plate Fin | Plate Fin | Plate Fin | Plate Fin |
| Tube Size in. (mm) OD | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) |
| Face Area, sq. ft (m²) | 24.0(2.23) | 24.0(2.23) | 33.33(3.10) | 33.33(3.10) | 50.2(4.66) |
| Rows | 2 | 2 | 2 | 2 | 2 |
| Fins Per Inch | 20 | 20 | 20 | 20 | 18 |
| Outdoor Fan Type | Propeller | Propeller | Propeller | Propeller | Propeller |
| No. Used | 1 | 1 | 2 | 2 | 2 |
| Diameter in. (mm) | 28.00(711.2) | 28.00(711.2) | 26.00(660.4) | 26.00(660.4) | 28.00(711.2) |
| Drive Type | Direct | Direct | Direct | Direct | Direct |
| No. Speeds | 1 | 1 | 1 | 1 | 1 |
| CFM ⁶ (m³/h) | 8120(13795.0) | 8120(13795.0) | 9400(15970.60) | 9400(15970.60) | 13400(22766.60) |
| No. Motors | 1 | 1 | 1 | 1 | 2 |
| Motor HP (kW) | 0.75(.56) | 0.75(.56) | 0.33(.25) | 0.33(.25) | 0.75(.56) |
| Motor RPM | 925 | 925 | 925 | 925 | 925 |
| R-22 Refrigerant Charge, lb ⁷ (kg) | 20.5(9.30) | 23.6(10.70) | 30.0(13.61) | 28.0(12.70) | 39.5(17.92) |

Notes:

- Cooling Performance is rated at 95°F (35°C) ambient, 80°F (26.7°C) entering dry bulb, 67°F (19.4°C) entering wet bulb and nominal cfm listed. ARI rating cfm is 350 cfm/ton for this product. Gross capacity does not include the effect of fan motor heat. ARI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Certified in accordance with the Unitary Large Equipment certification program, which is based on ARI Standard 340/360 or 365-00.
- Condensing Unit Only Gross Cooling Capacity rated at 45°F (7.2°C) saturated suction temperature and at 95°F (35°C) ambient.
- ARI Net Cooling Capacity is calculated with matched blower coil and 25 ft (7.6 m) of 1.375, 0.500 OD interconnecting tubing. EER and/or SEER are rated at ARI conditions and in accordance with DOE test procedures. Integrated Part Load Value is based on ARI Standard 340/360 or 365-00. Units are rated at 80°F (26.7°C) ambient, 80°F (26.7°C) entering dry bulb, and 67°F (19.4°C) entering wet bulb at ARI rated cfm.
- Sound Rating shown is tested in accordance with ARI Standard 270.
- System Data based on maximum linear length 80 ft (26.7 m) Maximum lift: suction 60 ft (18.3 m) liquid 60 ft (18.3 m) For greater lengths, refer to refrigerant piping applications manual.
- Outdoor Fan cfm is rated with standard air-dry coil outdoor.
- Refrigerant (operating) charge is for condensing unit (all circuits) with matching blower coils and 25 ft (7.6 m) of interconnecting refrigerant lines.

General Data

Air Handler

Table GD-3 — General Data

| | TWE050A | TWE075A | TWE100A | TWE100B |
|------------------------------------|-------------------------------|-------------------|--------------------|--------------------|
| System Data¹ | | | | |
| No. Refrigerant Circuits | 1 | 1 | 1 | 2 |
| Suction Line in. (mm) OD | 1.120(28.4) | 1.380(35.0) | 1.380(35.0) | 1.380(35.0) |
| Liquid Line in. (mm) OD | 0.38(9.7) | 0.50(12.7) | 0.50(12.7) | 0.50(12.7) |
| Indoor Coil — Type | | | | |
| Tube Size in. (mm) OD | Plate Fin | Plate Fin | Plate Fin | Plate Fin |
| Face Area sq. ft (m ²) | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) | 0.375(9.5) |
| Rows | 5.00(.47) | 8.07(.75) | 11.18(1.0) | 11.18(1.0) |
| Fins Per Inch | 3 | 3 | 4 | 4 |
| Refrigerant Control | 12 | 12 | 12 | 12 |
| Drain Connection No. | Expansion Valve | Expansion Valve | Expansion Valve | Expansion Valve |
| Drain Connection Size in. (mm) | 4 | 4 | 4 | 4 |
| Drain Connection Type | 0.75(19.0) | 0.75(19.0) | 0.75(19.0) | 0.75(19.0) |
| | PVC | PVC | PVC | PVC |
| Indoor Fan Type | | | | |
| No. Used | FC Centrifugal | FC Centrifugal | FC Centrifugal | FC Centrifugal |
| Diameter in. (mm) | 1 | 1 | 1 | 1 |
| Width in. (mm) | 12.0(304.8) | 15.0(381) | 15.0(381) | 15.0(381) |
| Drive Type | 12.0(304.8) | 15.0(381) | 15.0(381) | 15.0(381) |
| No. Speeds | Belt | Belt | Belt | Belt |
| CFM (m ³ /h) | 1 | 1 | 1 | 1 |
| No. Motors | 1670(2837) | 2500(4247) | 3325(5649) | 3325(5649) |
| Motor HP (kW) | 1 | 1 | 1 | 1 |
| - Standard/Oversized | 0.75/1.0(.55/.74) | 1.0/1.5(.74/1.11) | 1.5/2.0(1.11/1.49) | 1.5/2.0(1.11/1.49) |
| Motor RPM (Standard) | 1425 | 1425 | 1425 | 1425 |
| Motor Frame Size (Standard) | 56 | 56 | 56 | 56 |
| Filters — Type | | | | |
| Furnished | Throwaway | Throwaway | Throwaway | Throwaway |
| No. | Yes | Yes | Yes | Yes |
| Recommended Size, in. (mm) | 1/1 | 3 | 4 | 4 |
| | 16x20x1/20x20x1 | 16x25x1 | 16x25x1 | 16x25x1 |
| | (406.4x508x25.4/508x508x25.4) | (406.4x635x25.4) | (406.4x635x25.4) | (406.4x635x25.4) |

Notes:

1. ARI certified with various condensing units per ARI Standard 210/240 or 340/360 or 365-00. Refer to Performance Data section in this catalog.

Table GD-4 — General Data

| | TWE155B | TWE200B |
|------------------------------------|--------------------|---------------------------------|
| System Data | | |
| No. Refrigerant Circuits | 2 | 2 |
| Suction Line in. (mm) OD | 1.38(35.0) | 1.38(35.0) |
| Liquid Line in. (mm) OD | 0.500(12.7) | 0.500(12.7) |
| Indoor Coil — Type | | |
| Tube Size in. (mm) OD | Plate Fin | Plate Fin |
| Face Area sq. ft (m ²) | 0.375(9.5) | 0.375(9.5) |
| Rows | 16.33(1.52) | 21.63(2.01) |
| Fins Per Inch | 3 | 3 |
| Refrigerant Control | 12 | 12 |
| Drain Connection No. | Expansion Valve | Expansion Valve |
| Drain Connection Size in. (mm) | 4 | 4 |
| Drain Connection Type | 1.000(25.4) | 1.000(25.4) |
| | PVC | PVC |
| Indoor Fan Type | | |
| No. Used | FC Centrifugal | FC Centrifugal |
| Diameter in. (mm) | 2 | 2 |
| Width in. (mm) | 15.0(381) | 15.0(381) |
| Drive Type | 15.0(381) | 15.0(381) |
| No. Speeds | Belt | Belt |
| CFM (m ³ /h) | 1 | 1 |
| No. Motors | 5000(8494) | 6650(11297) |
| Motor HP — Standard/Oversized | 1 | 1 |
| Motor RPM (Standard) | 2.0/3.0(1.49/2.24) | 3.0/5.0(2.24/3.72) |
| Motor Frame Size (Standard) | 1425 | 1425 |
| | 145T | 184T |
| Filters — Type | | |
| Furnished | Throwaway | Throwaway |
| No. | Yes | Yes |
| Recommended Size, in. (mm) | 8 | 4/4 |
| | 15x20x2 | 16x20x2/16x25x2 |
| | (381x508x50.8) | (406.4x508x50.8/406.4x635x50.8) |

Notes:

1. ARI certified with various condensing units per ARI Standard 210/240 or 340/360 or 365-00. Refer to Performance Data section in this catalog.



Performance Data System

Table PD-1 — Gross Cooling Capacities (MBh) TTA075A Condensing Unit with TWE075A Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 2250 | 75 | 77.2 | 60.6 | 85.4 | 50.9 | 94.1 | 34.7 | 74.8 | 59.4 | 82.6 | 49.8 | 90.9 | 33.6 | 71.8 | 57.9 | 79.3 | 48.4 | 87.2 | 32.3 | 68.4 | 56.2 | 75.5 | 46.9 | 83.0 | 30.8 |
| | 80 | 77.6 | 70.5 | 85.6 | 58.4 | 94.2 | 45.3 | 75.2 | 69.3 | 82.8 | 57.2 | 91.0 | 44.1 | 72.3 | 67.9 | 79.5 | 55.8 | 87.3 | 42.7 | 69.0 | 66.2 | 75.6 | 54.0 | 83.2 | 41.2 |
| | 85 | 79.1 | 79.1 | 85.7 | 68.3 | 94.3 | 55.6 | 77.0 | 77.0 | 83.0 | 67.0 | 91.2 | 54.4 | 74.6 | 74.6 | 79.6 | 65.6 | 87.5 | 53.0 | 71.7 | 71.7 | 75.9 | 63.9 | 83.4 | 51.5 |
| | 90 | 83.1 | 83.1 | 86.1 | 78.3 | 94.5 | 65.9 | 81.0 | 81.0 | 83.4 | 77.1 | 91.2 | 64.5 | 78.4 | 78.4 | 80.2 | 75.6 | 87.6 | 63.0 | 75.4 | 75.4 | 76.6 | 74.0 | 83.5 | 61.4 |
| 2500 | 75 | 78.8 | 63.4 | 87.0 | 49.9 | 95.7 | 35.4 | 76.2 | 62.1 | 84.1 | 48.7 | 92.4 | 34.2 | 73.2 | 60.6 | 80.7 | 47.2 | 88.5 | 32.9 | 69.6 | 58.9 | 76.7 | 45.6 | 84.2 | 31.4 |
| | 80 | 79.3 | 74.3 | 87.2 | 61.1 | 95.8 | 46.8 | 76.8 | 73.1 | 84.2 | 59.7 | 92.5 | 45.6 | 73.9 | 71.6 | 80.8 | 58.2 | 88.7 | 44.2 | 70.5 | 70.0 | 76.9 | 56.4 | 84.4 | 42.6 |
| | 85 | 81.7 | 81.7 | 87.4 | 71.8 | 96.0 | 58.1 | 79.6 | 79.6 | 84.5 | 70.5 | 92.7 | 56.8 | 77.0 | 77.0 | 81.0 | 69.0 | 88.9 | 55.4 | 73.9 | 73.9 | 77.2 | 67.3 | 84.6 | 53.9 |
| | 90 | 85.9 | 85.9 | 87.9 | 82.8 | 96.0 | 69.0 | 83.7 | 83.7 | 85.2 | 81.5 | 92.7 | 67.7 | 80.9 | 80.9 | 81.9 | 80.0 | 89.0 | 66.2 | 77.8 | 77.8 | 77.8 | 77.8 | 84.8 | 64.5 |
| 2750 | 75 | 80.1 | 66.1 | 88.3 | 51.5 | 97.0 | 36.0 | 77.5 | 64.8 | 85.3 | 50.3 | 93.5 | 34.8 | 74.3 | 63.2 | 81.8 | 48.8 | 89.6 | 33.4 | 70.7 | 61.5 | 77.7 | 47.2 | 85.2 | 31.8 |
| | 80 | 80.9 | 78.0 | 88.4 | 63.4 | 97.1 | 48.2 | 78.3 | 76.7 | 85.5 | 62.1 | 93.7 | 47.0 | 75.3 | 75.2 | 81.9 | 60.5 | 89.8 | 45.6 | 71.9 | 71.9 | 77.9 | 58.8 | 85.4 | 44.0 |
| | 85 | 84.1 | 84.1 | 88.7 | 75.1 | 97.3 | 60.4 | 81.8 | 81.8 | 85.7 | 73.8 | 93.9 | 59.1 | 79.0 | 79.0 | 82.3 | 72.2 | 90.0 | 57.7 | 75.8 | 75.8 | 78.3 | 70.5 | 85.5 | 55.9 |
| | 90 | 88.4 | 88.4 | 89.6 | 87.1 | 97.4 | 72.0 | 86.0 | 86.0 | 86.8 | 85.8 | 94.0 | 70.7 | 83.1 | 83.1 | 83.2 | 83.2 | 90.1 | 69.2 | 79.8 | 79.8 | 79.9 | 79.9 | 85.8 | 67.5 |
| 3000 | 75 | 81.3 | 68.6 | 89.5 | 53.1 | 98.0 | 36.5 | 78.5 | 67.3 | 86.4 | 51.9 | 94.5 | 35.2 | 75.3 | 65.7 | 82.7 | 50.4 | 90.5 | 33.8 | 71.6 | 63.9 | 78.6 | 48.7 | 85.9 | 32.2 |
| | 80 | 82.3 | 81.5 | 89.6 | 65.7 | 98.2 | 49.6 | 79.4 | 79.4 | 86.5 | 64.4 | 94.7 | 48.3 | 76.6 | 76.6 | 82.9 | 62.8 | 90.7 | 46.9 | 73.5 | 73.5 | 78.8 | 61.1 | 86.3 | 45.3 |
| | 85 | 86.1 | 86.1 | 89.9 | 78.3 | 98.4 | 62.6 | 83.7 | 83.7 | 86.9 | 76.9 | 94.9 | 61.3 | 80.8 | 80.8 | 83.4 | 75.4 | 90.8 | 59.6 | 77.5 | 77.5 | 79.4 | 73.7 | 86.4 | 57.9 |
| | 90 | 90.5 | 90.5 | 90.6 | 90.6 | 98.5 | 75.0 | 88.0 | 88.0 | 88.1 | 88.1 | 95.0 | 73.6 | 85.0 | 85.0 | 85.1 | 85.1 | 91.1 | 72.1 | 81.6 | 81.6 | 81.7 | 81.7 | 86.7 | 70.4 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-1 — Gross Cooling Capacities (kW) TTA075A Condensing Unit with TWE075A Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3823 | 24 | 22.6 | 17.7 | 25.0 | 14.9 | 27.6 | 10.2 | 21.9 | 17.4 | 24.2 | 14.6 | 26.6 | 9.8 | 21.0 | 16.9 | 23.2 | 14.2 | 25.5 | 9.5 | 20.0 | 16.5 | 22.1 | 13.7 | 24.3 | 9.0 |
| | 27 | 22.7 | 20.7 | 25.1 | 17.1 | 27.6 | 13.3 | 22.0 | 20.3 | 24.3 | 16.8 | 26.6 | 12.9 | 21.2 | 19.9 | 23.3 | 16.3 | 25.6 | 12.5 | 20.2 | 19.4 | 22.1 | 15.8 | 24.3 | 12.1 |
| | 29 | 23.2 | 23.2 | 25.1 | 20.0 | 27.6 | 16.3 | 22.6 | 22.6 | 24.3 | 19.6 | 26.7 | 15.9 | 21.8 | 21.8 | 23.3 | 19.2 | 25.6 | 15.5 | 21.0 | 21.0 | 22.2 | 18.7 | 24.4 | 15.1 |
| | 32 | 24.3 | 24.3 | 25.2 | 22.9 | 27.7 | 19.3 | 23.7 | 23.7 | 24.4 | 22.6 | 26.7 | 18.9 | 23.0 | 23.0 | 23.5 | 22.1 | 25.6 | 18.5 | 22.1 | 22.1 | 22.4 | 21.7 | 24.4 | 18.0 |
| 4248 | 24 | 23.1 | 18.6 | 25.5 | 14.6 | 28.0 | 10.4 | 22.3 | 18.2 | 24.6 | 14.3 | 27.0 | 10.0 | 21.4 | 17.7 | 23.6 | 13.8 | 25.9 | 9.6 | 20.4 | 17.2 | 22.5 | 13.4 | 24.7 | 9.2 |
| | 27 | 23.2 | 21.8 | 25.5 | 17.9 | 28.0 | 13.7 | 22.5 | 21.4 | 24.7 | 17.5 | 27.1 | 13.3 | 21.6 | 21.0 | 23.7 | 17.0 | 26.0 | 12.9 | 20.7 | 20.5 | 22.5 | 16.5 | 24.7 | 12.5 |
| | 29 | 23.9 | 23.9 | 25.6 | 21.0 | 28.1 | 17.0 | 23.3 | 23.3 | 24.7 | 20.6 | 27.1 | 16.6 | 22.5 | 22.5 | 23.7 | 20.2 | 26.0 | 16.2 | 21.6 | 21.6 | 22.6 | 19.7 | 24.8 | 15.8 |
| | 32 | 25.2 | 25.2 | 25.8 | 24.2 | 28.1 | 20.2 | 24.5 | 24.5 | 24.9 | 23.9 | 27.2 | 19.8 | 23.7 | 23.7 | 24.0 | 23.4 | 26.1 | 19.4 | 22.8 | 22.8 | 22.8 | 22.8 | 24.8 | 18.9 |
| 4672 | 24 | 23.5 | 19.3 | 25.9 | 15.1 | 28.4 | 10.5 | 22.7 | 19.0 | 25.0 | 14.7 | 27.4 | 10.2 | 21.8 | 18.5 | 23.9 | 14.3 | 26.2 | 9.8 | 20.7 | 18.0 | 22.8 | 13.8 | 24.9 | 9.3 |
| | 27 | 23.7 | 22.8 | 25.9 | 18.6 | 28.4 | 14.1 | 22.9 | 22.5 | 25.0 | 18.2 | 27.4 | 13.8 | 22.1 | 22.0 | 24.0 | 17.7 | 26.3 | 13.3 | 21.0 | 21.0 | 22.8 | 17.2 | 25.0 | 12.9 |
| | 29 | 24.6 | 24.6 | 26.0 | 22.0 | 28.5 | 17.7 | 24.0 | 24.0 | 25.1 | 21.6 | 27.5 | 17.3 | 23.1 | 23.1 | 24.1 | 21.2 | 26.3 | 16.9 | 22.2 | 22.2 | 22.9 | 20.7 | 25.0 | 16.4 |
| | 32 | 25.9 | 25.9 | 26.2 | 25.5 | 28.5 | 21.1 | 25.2 | 25.2 | 25.4 | 25.1 | 27.5 | 20.7 | 24.3 | 24.3 | 24.4 | 24.4 | 26.4 | 20.3 | 23.4 | 23.4 | 23.4 | 23.4 | 25.1 | 19.8 |
| 5097 | 24 | 23.8 | 20.1 | 26.2 | 15.5 | 28.7 | 10.7 | 23.0 | 19.7 | 25.3 | 15.2 | 27.7 | 10.3 | 22.0 | 19.2 | 24.2 | 14.8 | 26.5 | 9.9 | 21.0 | 18.7 | 23.0 | 14.3 | 25.2 | 9.4 |
| | 27 | 24.1 | 23.9 | 26.2 | 19.2 | 28.8 | 14.5 | 23.2 | 23.2 | 25.3 | 18.8 | 27.7 | 14.1 | 22.4 | 22.4 | 24.3 | 18.4 | 26.6 | 13.7 | 21.5 | 21.5 | 23.1 | 17.9 | 25.3 | 13.3 |
| | 29 | 25.2 | 25.2 | 26.3 | 22.9 | 28.8 | 18.3 | 24.5 | 24.5 | 25.4 | 22.5 | 27.8 | 18.0 | 23.7 | 23.7 | 24.4 | 22.1 | 26.6 | 17.5 | 22.7 | 22.7 | 23.2 | 21.6 | 25.3 | 17.0 |
| | 32 | 26.5 | 26.5 | 26.5 | 26.5 | 28.8 | 22.0 | 25.8 | 25.8 | 25.8 | 25.8 | 27.8 | 21.6 | 24.9 | 24.9 | 24.9 | 24.9 | 26.7 | 21.1 | 23.9 | 23.9 | 23.9 | 23.9 | 25.4 | 20.6 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data

System

Table PD-2 — Gross Cooling Capacities (MBh) TTA075A Condensing Unit with TWE100A Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 2550 | 75 | 82.1 | 66.3 | 90.5 | 55.2 | 99.3 | 36.7 | 79.5 | 65.0 | 87.6 | 54.0 | 95.9 | 35.6 | 76.2 | 63.4 | 84.0 | 52.6 | 92.0 | 34.3 | 72.3 | 61.5 | 80.0 | 51.0 | 87.6 | 32.8 |
| | 80 | 82.6 | 77.8 | 90.7 | 63.7 | 99.4 | 48.7 | 80.0 | 76.5 | 87.8 | 62.5 | 96.1 | 47.5 | 76.9 | 75.0 | 84.1 | 60.8 | 92.2 | 46.1 | 73.3 | 73.2 | 80.1 | 59.1 | 87.9 | 44.5 |
| | 85 | 85.2 | 85.2 | 90.8 | 75.0 | 99.6 | 60.5 | 83.0 | 83.0 | 87.9 | 73.7 | 96.3 | 59.2 | 80.2 | 80.2 | 84.4 | 72.2 | 92.5 | 57.8 | 77.1 | 77.1 | 80.4 | 70.5 | 88.1 | 56.3 |
| | 90 | 89.5 | 89.5 | 91.3 | 86.6 | 99.7 | 72.2 | 87.1 | 87.1 | 88.5 | 85.3 | 96.3 | 70.7 | 84.3 | 84.3 | 85.1 | 83.8 | 92.5 | 69.2 | 81.1 | 81.1 | 81.2 | 81.2 | 88.2 | 67.6 |
| 2850 | 75 | 83.7 | 69.7 | 92.2 | 54.1 | 100.8 | 37.5 | 81.0 | 68.4 | 89.1 | 52.8 | 97.4 | 36.2 | 77.6 | 66.7 | 85.4 | 51.3 | 93.3 | 34.8 | 73.7 | 64.9 | 81.3 | 49.7 | 88.8 | 33.2 |
| | 80 | 84.5 | 82.4 | 92.2 | 66.7 | 101.0 | 50.5 | 81.9 | 81.2 | 89.2 | 65.4 | 97.6 | 49.2 | 78.6 | 78.6 | 85.5 | 63.8 | 93.6 | 47.8 | 75.3 | 75.3 | 81.4 | 62.1 | 89.2 | 46.2 |
| | 85 | 88.1 | 88.1 | 92.4 | 79.2 | 101.2 | 63.4 | 85.7 | 85.7 | 89.4 | 77.9 | 97.7 | 62.1 | 82.8 | 82.8 | 85.8 | 76.4 | 93.8 | 60.7 | 79.5 | 79.5 | 81.8 | 74.6 | 89.4 | 59.2 |
| | 90 | 92.5 | 92.5 | 93.3 | 92.0 | 101.2 | 75.9 | 90.1 | 90.1 | 90.1 | 90.1 | 97.8 | 74.6 | 87.1 | 87.1 | 87.2 | 87.2 | 93.9 | 73.1 | 83.7 | 83.7 | 83.8 | 83.8 | 89.5 | 71.4 |
| 3150 | 75 | 85.1 | 72.9 | 93.5 | 56.0 | 102.0 | 38.0 | 82.2 | 71.6 | 90.3 | 54.8 | 98.5 | 36.8 | 78.8 | 69.9 | 86.6 | 53.3 | 94.4 | 35.4 | 74.8 | 68.0 | 82.3 | 51.6 | 89.8 | 33.8 |
| | 80 | 86.0 | 86.0 | 93.6 | 69.7 | 102.3 | 52.1 | 83.6 | 83.6 | 90.4 | 68.3 | 98.7 | 50.9 | 80.6 | 80.6 | 86.7 | 66.7 | 94.7 | 49.5 | 77.3 | 77.3 | 82.5 | 64.9 | 90.2 | 47.9 |
| | 85 | 90.5 | 90.5 | 93.8 | 83.3 | 102.5 | 66.2 | 88.0 | 88.0 | 90.8 | 82.0 | 98.9 | 64.9 | 85.0 | 85.0 | 87.1 | 80.4 | 94.8 | 63.2 | 81.6 | 81.6 | 83.0 | 78.6 | 90.4 | 61.5 |
| | 90 | 95.1 | 95.1 | 95.2 | 95.2 | 102.5 | 79.6 | 92.5 | 92.5 | 92.6 | 92.6 | 99.0 | 78.3 | 89.4 | 89.4 | 89.5 | 89.5 | 95.1 | 76.8 | 85.9 | 85.9 | 86.0 | 86.0 | 90.6 | 75.1 |
| 3450 | 75 | 86.2 | 76.0 | 94.6 | 57.9 | 103.1 | 38.6 | 83.3 | 74.6 | 91.3 | 56.6 | 99.4 | 37.3 | 79.9 | 73.0 | 87.5 | 55.1 | 95.3 | 35.9 | 75.9 | 71.1 | 83.0 | 53.1 | 90.6 | 34.3 |
| | 80 | 88.0 | 88.0 | 94.7 | 72.5 | 103.3 | 53.7 | 85.5 | 85.5 | 91.5 | 71.1 | 99.7 | 52.5 | 82.5 | 82.5 | 87.7 | 69.5 | 95.7 | 51.1 | 79.0 | 79.0 | 83.4 | 67.7 | 91.1 | 49.5 |
| | 85 | 92.7 | 92.7 | 95.1 | 87.2 | 103.4 | 68.6 | 90.1 | 90.1 | 92.0 | 85.9 | 99.8 | 67.2 | 86.9 | 86.9 | 88.3 | 84.3 | 95.8 | 65.7 | 83.4 | 83.4 | 84.2 | 82.5 | 91.3 | 64.0 |
| | 90 | 97.4 | 97.4 | 97.4 | 97.4 | 103.6 | 83.2 | 94.6 | 94.6 | 94.7 | 94.7 | 100.0 | 81.9 | 91.4 | 91.4 | 91.5 | 91.5 | 96.0 | 80.4 | 87.8 | 87.8 | 87.9 | 87.9 | 91.5 | 78.7 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-2 — Gross Cooling Capacities (kW) TTA075A Condensing Unit with TWE100A Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 4332 | 23.9 | 24.0 | 19.4 | 26.5 | 16.2 | 29.1 | 10.8 | 23.3 | 19.0 | 25.6 | 15.8 | 28.1 | 10.4 | 22.3 | 18.6 | 24.6 | 15.4 | 26.9 | 10.0 | 21.2 | 18.0 | 23.4 | 14.9 | 25.7 | 9.6 |
| | 26.7 | 24.2 | 22.8 | 26.6 | 18.7 | 29.1 | 14.3 | 23.4 | 22.4 | 25.7 | 18.3 | 28.1 | 13.9 | 22.5 | 22.0 | 24.6 | 17.8 | 27.0 | 13.5 | 21.5 | 21.4 | 23.5 | 17.3 | 25.7 | 13.0 |
| | 29.4 | 25.0 | 25.0 | 26.6 | 22.0 | 29.1 | 17.7 | 24.3 | 24.3 | 25.7 | 21.6 | 28.2 | 17.3 | 23.5 | 23.5 | 24.7 | 21.1 | 27.1 | 16.9 | 22.6 | 22.6 | 23.5 | 20.6 | 25.8 | 16.5 |
| | 32.2 | 26.2 | 26.2 | 26.7 | 25.3 | 29.2 | 21.1 | 25.5 | 25.5 | 25.9 | 25.0 | 28.2 | 20.7 | 24.7 | 24.7 | 24.9 | 24.5 | 27.1 | 20.3 | 23.7 | 23.7 | 23.8 | 23.8 | 25.8 | 19.8 |
| 4842 | 23.9 | 24.5 | 20.4 | 27.0 | 15.8 | 29.5 | 11.0 | 23.7 | 20.0 | 26.1 | 15.5 | 28.5 | 10.6 | 22.7 | 19.5 | 25.0 | 15.0 | 27.3 | 10.2 | 21.6 | 19.0 | 23.8 | 14.5 | 26.0 | 9.7 |
| | 26.7 | 24.7 | 24.1 | 27.0 | 19.5 | 29.6 | 14.8 | 24.0 | 23.8 | 26.1 | 19.2 | 28.6 | 14.4 | 23.0 | 23.0 | 25.0 | 18.7 | 27.4 | 14.0 | 22.0 | 22.0 | 23.8 | 18.2 | 26.1 | 13.5 |
| | 29.4 | 25.8 | 25.8 | 27.1 | 23.2 | 29.6 | 18.6 | 25.1 | 25.1 | 26.2 | 22.8 | 28.6 | 18.2 | 24.3 | 24.3 | 25.1 | 22.4 | 27.5 | 17.8 | 23.3 | 23.3 | 23.9 | 21.8 | 26.2 | 17.3 |
| | 32.2 | 27.1 | 27.1 | 27.3 | 26.9 | 29.6 | 22.2 | 26.4 | 26.4 | 26.4 | 26.4 | 28.6 | 21.8 | 25.5 | 25.5 | 25.5 | 25.5 | 27.5 | 21.4 | 24.5 | 24.5 | 24.5 | 24.5 | 26.2 | 20.9 |
| 5352 | 23.9 | 24.9 | 21.4 | 27.4 | 16.4 | 29.9 | 11.1 | 24.1 | 21.0 | 26.4 | 16.0 | 28.8 | 10.8 | 23.1 | 20.5 | 25.3 | 15.6 | 27.6 | 10.4 | 21.9 | 19.9 | 24.1 | 15.1 | 26.3 | 9.9 |
| | 26.7 | 25.2 | 25.2 | 27.4 | 20.4 | 29.9 | 15.3 | 24.5 | 24.5 | 26.5 | 20.0 | 28.9 | 14.9 | 23.6 | 23.6 | 25.4 | 19.5 | 27.7 | 14.5 | 22.6 | 22.6 | 24.2 | 19.0 | 26.4 | 14.0 |
| | 29.4 | 26.5 | 26.5 | 27.5 | 24.4 | 30.0 | 19.4 | 25.8 | 25.8 | 26.6 | 24.0 | 29.0 | 19.0 | 24.9 | 24.9 | 25.5 | 23.5 | 27.8 | 18.5 | 23.9 | 23.9 | 24.3 | 23.0 | 26.5 | 18.0 |
| | 32.2 | 27.8 | 27.8 | 27.9 | 27.9 | 30.0 | 23.3 | 27.1 | 27.1 | 27.1 | 27.1 | 29.0 | 22.9 | 26.2 | 26.2 | 26.2 | 26.2 | 27.8 | 22.5 | 25.1 | 25.1 | 25.2 | 25.2 | 26.5 | 22.0 |
| 5862 | 23.9 | 25.2 | 22.3 | 27.7 | 17.0 | 30.2 | 11.3 | 24.4 | 21.9 | 26.7 | 16.6 | 29.1 | 10.9 | 23.4 | 21.4 | 25.6 | 16.1 | 27.9 | 10.5 | 22.2 | 20.8 | 24.3 | 15.6 | 26.5 | 10.0 |
| | 26.7 | 25.8 | 25.8 | 27.7 | 21.2 | 30.3 | 15.7 | 25.0 | 25.0 | 26.8 | 20.8 | 29.2 | 15.4 | 24.2 | 24.2 | 25.7 | 20.3 | 28.0 | 15.0 | 23.1 | 23.1 | 24.4 | 19.8 | 26.7 | 14.5 |
| | 29.4 | 27.1 | 27.1 | 27.8 | 25.5 | 30.3 | 20.1 | 26.4 | 26.4 | 26.9 | 25.1 | 29.2 | 19.7 | 25.5 | 25.5 | 25.8 | 24.7 | 28.1 | 19.2 | 24.4 | 24.4 | 24.6 | 24.2 | 26.7 | 18.7 |
| | 32.2 | 28.5 | 28.5 | 28.5 | 28.5 | 30.3 | 24.4 | 27.7 | 27.7 | 27.7 | 27.7 | 29.3 | 24.0 | 26.8 | 26.8 | 26.8 | 26.8 | 28.1 | 23.5 | 25.7 | 25.7 | 25.7 | 25.7 | 26.8 | 23.0 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity



Performance Data System

Table PD-3 — Gross Cooling Capacities (MBh) TTA085A Condensing Unit with TWE075A Air Handler

(I-P)

| CFM | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------|--------------------------|------|------|------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| | | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| Enter. Dry Bulb | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | | |
| 2250 | 75 | 82.5 | 63.0 | 91.6 | 53.2 | 101.7 | 37.2 | 79.6 | 61.5 | 88.4 | 51.9 | 98.1 | 35.9 | 76.5 | 60.0 | 85.0 | 50.5 | 94.3 | 34.6 | 73.3 | 58.3 | 81.5 | 49.1 | 90.4 | 33.2 |
| | 80 | 82.8 | 72.9 | 91.9 | 61.0 | 101.7 | 48.1 | 80.0 | 71.4 | 88.7 | 59.6 | 98.2 | 46.7 | 77.0 | 69.9 | 85.4 | 58.1 | 94.5 | 45.3 | 73.8 | 68.3 | 81.9 | 56.6 | 90.6 | 43.8 |
| | 85 | 84.0 | 83.3 | 92.1 | 70.9 | 102.0 | 58.4 | 81.0 | 81.0 | 88.9 | 69.4 | 98.4 | 57.0 | 78.5 | 78.5 | 85.5 | 67.9 | 94.8 | 55.6 | 75.9 | 75.9 | 82.1 | 66.3 | 90.9 | 54.1 |
| | 90 | 87.7 | 87.7 | 92.4 | 80.8 | 102.2 | 68.7 | 85.3 | 85.3 | 89.3 | 79.4 | 98.7 | 67.3 | 82.7 | 82.7 | 86.0 | 77.9 | 95.0 | 65.9 | 80.1 | 80.1 | 82.6 | 76.3 | 91.0 | 64.1 |
| 2500 | 75 | 84.4 | 65.9 | 93.6 | 52.5 | 103.7 | 37.9 | 81.4 | 64.4 | 90.3 | 51.1 | 99.9 | 36.6 | 78.2 | 62.8 | 86.8 | 49.6 | 96.0 | 35.3 | 74.8 | 61.1 | 83.1 | 48.1 | 91.9 | 33.9 |
| | 80 | 84.8 | 76.7 | 93.9 | 63.8 | 103.7 | 49.6 | 81.9 | 75.2 | 90.6 | 62.3 | 100.0 | 48.2 | 78.8 | 73.7 | 86.9 | 60.6 | 96.2 | 46.8 | 75.6 | 72.1 | 83.3 | 59.0 | 92.2 | 45.3 |
| | 85 | 86.4 | 86.4 | 94.1 | 74.4 | 104.0 | 60.9 | 83.9 | 83.9 | 90.8 | 72.9 | 100.4 | 59.5 | 81.3 | 81.3 | 87.3 | 71.4 | 96.5 | 58.1 | 78.6 | 78.6 | 83.7 | 69.8 | 92.6 | 56.6 |
| | 90 | 90.9 | 90.9 | 94.5 | 85.3 | 104.3 | 72.1 | 88.4 | 88.4 | 91.3 | 83.9 | 100.4 | 70.4 | 85.7 | 85.7 | 88.0 | 82.4 | 96.7 | 68.9 | 82.9 | 82.9 | 84.5 | 80.8 | 92.7 | 67.3 |
| 2750 | 75 | 85.9 | 68.6 | 95.2 | 54.2 | 105.2 | 38.7 | 82.8 | 67.0 | 91.8 | 52.8 | 101.4 | 37.3 | 79.5 | 65.4 | 88.2 | 51.3 | 97.3 | 36.0 | 76.1 | 63.7 | 84.4 | 49.8 | 93.1 | 34.5 |
| | 80 | 86.5 | 80.4 | 95.3 | 66.1 | 105.4 | 51.1 | 83.5 | 78.9 | 91.9 | 64.6 | 101.6 | 49.7 | 80.4 | 77.3 | 88.4 | 63.0 | 97.6 | 48.2 | 77.1 | 75.7 | 84.7 | 61.4 | 93.5 | 46.8 |
| | 85 | 89.0 | 89.0 | 95.7 | 77.8 | 105.7 | 63.3 | 86.4 | 86.4 | 92.3 | 76.3 | 101.9 | 61.9 | 83.7 | 83.7 | 88.8 | 74.7 | 98.0 | 60.4 | 80.9 | 80.9 | 85.1 | 73.1 | 93.9 | 59.0 |
| | 90 | 93.8 | 93.8 | 96.4 | 89.7 | 105.8 | 75.0 | 91.1 | 91.1 | 93.2 | 88.2 | 102.1 | 73.5 | 88.3 | 88.3 | 89.8 | 86.7 | 98.2 | 72.0 | 85.4 | 85.4 | 86.3 | 85.1 | 94.2 | 70.4 |
| 3000 | 75 | 87.3 | 71.2 | 96.6 | 55.9 | 106.6 | 39.4 | 84.1 | 69.6 | 93.1 | 54.4 | 102.6 | 38.0 | 80.7 | 68.0 | 89.4 | 52.9 | 98.5 | 36.5 | 77.2 | 66.2 | 85.5 | 51.3 | 94.2 | 35.0 |
| | 80 | 88.1 | 83.9 | 96.8 | 68.5 | 106.8 | 52.5 | 85.1 | 82.4 | 93.3 | 67.0 | 102.9 | 51.1 | 81.9 | 80.8 | 89.6 | 65.3 | 98.9 | 49.6 | 78.3 | 78.3 | 85.8 | 63.7 | 94.7 | 48.1 |
| | 85 | 91.4 | 91.4 | 97.2 | 81.0 | 107.2 | 65.6 | 88.7 | 88.7 | 93.7 | 79.5 | 103.3 | 64.2 | 85.9 | 85.9 | 90.1 | 77.9 | 99.3 | 62.7 | 82.9 | 82.9 | 86.3 | 76.3 | 94.9 | 60.8 |
| | 90 | 96.3 | 96.3 | 98.2 | 93.9 | 107.3 | 78.0 | 93.5 | 93.5 | 94.9 | 92.4 | 103.5 | 76.5 | 90.6 | 90.6 | 91.4 | 90.8 | 99.5 | 74.9 | 87.6 | 87.6 | 87.6 | 87.6 | 95.4 | 73.3 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-3 — Gross Cooling Capacities (kW) TTA085A Condensing Unit with TWE075A Air Handler

(SI)

| m³/h | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|--------------------------|------|------------------------|------|------|------|------|------|------|------|------|------|------|------|-----------------|------|------------------------|------|------|------|------|------|------|------|------|--|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | | | |
| | | Enter. Dry Bulb | | Entering Wet Bulb (°C) | | | | | | | | | | | | Enter. Dry Bulb | | Entering Wet Bulb (°C) | | | | | | | | | |
| 16.1 | | | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | | |
| 3823 | 24 | 24.2 | 18.5 | 26.8 | 15.6 | 29.8 | 10.9 | 23.3 | 18.0 | 25.9 | 15.2 | 28.7 | 10.5 | 22.4 | 17.6 | 24.9 | 14.8 | 27.6 | 10.1 | 21.5 | 17.1 | 23.9 | 14.4 | 26.5 | 9.7 | | |
| | 27 | 24.2 | 21.3 | 26.9 | 17.9 | 29.8 | 14.1 | 23.4 | 20.9 | 26.0 | 17.4 | 28.7 | 13.7 | 22.5 | 20.5 | 25.0 | 17.0 | 27.7 | 13.3 | 21.6 | 20.0 | 24.0 | 16.6 | 26.5 | 12.8 | | |
| | 29 | 24.6 | 24.4 | 27.0 | 20.8 | 29.9 | 17.1 | 23.7 | 23.7 | 26.0 | 20.3 | 28.8 | 16.7 | 23.0 | 23.0 | 25.0 | 19.9 | 27.7 | 16.3 | 22.2 | 22.2 | 24.0 | 19.4 | 26.6 | 15.9 | | |
| | 32 | 25.7 | 25.7 | 27.0 | 23.7 | 29.9 | 20.1 | 25.0 | 25.0 | 26.1 | 23.2 | 28.9 | 19.7 | 24.2 | 24.2 | 25.2 | 22.8 | 27.8 | 19.3 | 23.4 | 23.4 | 24.2 | 22.3 | 26.7 | 18.8 | | |
| 4248 | 24 | 24.7 | 19.3 | 27.4 | 15.4 | 30.3 | 11.1 | 23.8 | 18.8 | 26.4 | 15.0 | 29.3 | 10.7 | 22.9 | 18.4 | 25.4 | 14.5 | 28.1 | 10.3 | 21.9 | 17.9 | 24.3 | 14.1 | 26.9 | 9.9 | | |
| | 27 | 24.8 | 22.5 | 27.5 | 18.7 | 30.4 | 14.5 | 24.0 | 22.0 | 26.5 | 18.3 | 29.3 | 14.1 | 23.1 | 21.6 | 25.4 | 17.7 | 28.2 | 13.7 | 22.1 | 21.1 | 24.4 | 17.3 | 27.0 | 13.3 | | |
| | 29 | 25.3 | 25.3 | 27.5 | 21.8 | 30.5 | 17.8 | 24.6 | 24.6 | 26.6 | 21.4 | 29.4 | 17.4 | 23.8 | 23.8 | 25.6 | 20.9 | 28.3 | 17.0 | 23.0 | 23.0 | 24.5 | 20.4 | 27.1 | 16.6 | | |
| | 32 | 26.6 | 26.6 | 27.7 | 25.0 | 30.5 | 21.1 | 25.9 | 25.9 | 26.7 | 24.6 | 29.4 | 20.6 | 25.1 | 25.1 | 25.8 | 24.1 | 28.3 | 20.2 | 24.3 | 24.3 | 24.8 | 23.7 | 27.2 | 19.7 | | |
| 4672 | 24 | 25.2 | 20.1 | 27.9 | 15.9 | 30.8 | 11.3 | 24.3 | 19.6 | 26.9 | 15.5 | 29.7 | 10.9 | 23.3 | 19.2 | 25.8 | 15.0 | 28.5 | 10.5 | 22.3 | 18.7 | 24.7 | 14.6 | 27.3 | 10.1 | | |
| | 27 | 25.3 | 23.5 | 27.9 | 19.4 | 30.9 | 15.0 | 24.5 | 23.1 | 26.9 | 18.9 | 29.7 | 14.6 | 23.5 | 22.6 | 25.9 | 18.5 | 28.6 | 14.1 | 22.6 | 22.2 | 24.8 | 18.0 | 27.4 | 13.7 | | |
| | 29 | 26.1 | 26.1 | 28.0 | 22.8 | 31.0 | 18.5 | 25.3 | 25.3 | 27.0 | 22.3 | 29.8 | 18.1 | 24.5 | 24.5 | 26.0 | 21.9 | 28.7 | 17.7 | 23.7 | 23.7 | 24.9 | 21.4 | 27.5 | 17.3 | | |
| | 32 | 27.5 | 27.5 | 28.2 | 26.3 | 31.0 | 22.0 | 26.7 | 26.7 | 27.3 | 25.8 | 29.9 | 21.5 | 25.9 | 25.9 | 26.3 | 25.4 | 28.8 | 21.1 | 25.0 | 25.0 | 25.3 | 24.9 | 27.6 | 20.6 | | |
| 5097 | 24 | 25.6 | 20.8 | 28.3 | 16.4 | 31.2 | 11.5 | 24.6 | 20.4 | 27.2 | 15.9 | 30.0 | 11.1 | 23.6 | 19.9 | 26.2 | 15.5 | 28.8 | 10.7 | 22.6 | 19.4 | 25.0 | 15.0 | 27.6 | 10.2 | | |
| | 27 | 25.8 | 24.6 | 28.3 | 20.1 | 31.3 | 15.4 | 24.9 | 24.1 | 27.3 | 19.6 | 30.1 | 15.0 | 24.0 | 23.7 | 26.2 | 19.1 | 28.9 | 14.5 | 22.9 | 22.9 | 25.1 | 18.6 | 27.7 | 14.1 | | |
| | 29 | 26.8 | 26.8 | 28.5 | 23.7 | 31.4 | 19.2 | 26.0 | 26.0 | 27.4 | 23.3 | 30.2 | 18.8 | 25.1 | 25.1 | 26.4 | 22.8 | 29.1 | 18.4 | 24.3 | 24.3 | 25.3 | 22.3 | 27.8 | 17.8 | | |
| | 32 | 28.2 | 28.2 | 28.7 | 27.5 | 31.4 | 22.8 | 27.4 | 27.4 | 27.8 | 27.0 | 30.3 | 22.4 | 26.5 | 26.5 | 26.8 | 26.6 | 29.1 | 21.9 | 25.6 | 25.6 | 25.7 | 25.7 | 27.9 | 21.5 | | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Performance Data System

Table PD-4 — Gross Cooling Capacities (MBh) TTA085A Condensing Unit with TWE100A Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|------|------|------|------|------|------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 2500 | 75 | 87.7 | 68.7 | 97.0 | 57.2 | 107.1 | 39.2 | 84.5 | 67.1 | 93.5 | 55.8 | 103.1 | 37.9 | 81.1 | 65.4 | 89.8 | 54.3 | 98.9 | 36.4 | 77.6 | 63.7 | 86.0 | 52.7 | 94.6 | 35.0 |
| | 80 | 88.0 | 80.1 | 97.3 | 66.3 | 107.2 | 51.4 | 84.9 | 78.5 | 93.8 | 64.8 | 103.4 | 49.9 | 81.6 | 76.9 | 90.1 | 63.2 | 99.3 | 48.4 | 78.2 | 75.1 | 86.1 | 61.3 | 95.1 | 46.9 |
| | 85 | 89.8 | 89.8 | 97.5 | 77.6 | 107.6 | 63.2 | 87.2 | 87.2 | 94.0 | 76.0 | 103.7 | 61.7 | 84.4 | 84.4 | 90.3 | 74.3 | 99.7 | 60.2 | 81.5 | 81.5 | 86.5 | 72.7 | 95.5 | 58.7 |
| | 90 | 94.4 | 94.4 | 97.9 | 89.0 | 107.8 | 74.9 | 91.7 | 91.7 | 94.4 | 87.4 | 103.9 | 73.5 | 88.9 | 88.9 | 90.9 | 85.8 | 99.8 | 71.6 | 85.9 | 85.9 | 87.3 | 84.2 | 95.6 | 70.0 |
| 2800 | 75 | 89.6 | 72.2 | 99.1 | 56.7 | 109.0 | 40.0 | 86.3 | 70.6 | 95.4 | 55.2 | 104.9 | 38.6 | 82.8 | 68.9 | 91.6 | 53.6 | 100.5 | 37.2 | 79.2 | 67.1 | 87.6 | 52.0 | 96.0 | 35.6 |
| | 80 | 90.2 | 84.8 | 99.4 | 69.7 | 109.3 | 53.3 | 87.0 | 83.2 | 95.5 | 67.8 | 105.3 | 51.8 | 83.7 | 81.6 | 91.7 | 66.2 | 101.1 | 50.3 | 80.2 | 79.9 | 87.8 | 64.4 | 96.7 | 48.7 |
| | 85 | 93.1 | 93.1 | 99.5 | 81.9 | 109.6 | 66.3 | 90.4 | 90.4 | 95.9 | 80.3 | 105.6 | 64.8 | 87.4 | 87.4 | 92.1 | 78.6 | 101.5 | 63.3 | 84.4 | 84.4 | 88.2 | 76.9 | 97.1 | 61.7 |
| | 90 | 98.0 | 98.0 | 100.2 | 94.6 | 109.7 | 78.8 | 95.1 | 95.1 | 96.7 | 93.0 | 105.7 | 77.2 | 92.1 | 92.1 | 93.1 | 91.4 | 101.6 | 75.6 | 89.0 | 89.0 | 89.1 | 89.1 | 97.3 | 73.9 |
| 3100 | 75 | 91.2 | 75.5 | 100.7 | 58.8 | 110.5 | 40.8 | 87.8 | 73.9 | 96.9 | 57.3 | 106.2 | 39.4 | 84.2 | 72.1 | 93.0 | 55.7 | 101.8 | 37.9 | 80.5 | 70.3 | 88.9 | 54.1 | 97.2 | 36.3 |
| | 80 | 92.1 | 89.4 | 100.9 | 72.5 | 111.0 | 55.1 | 88.9 | 87.8 | 97.1 | 70.8 | 106.8 | 53.6 | 85.2 | 85.2 | 93.2 | 69.1 | 102.5 | 52.1 | 82.1 | 82.1 | 89.2 | 67.4 | 98.1 | 50.5 |
| | 85 | 96.1 | 96.1 | 101.2 | 86.1 | 111.3 | 69.2 | 93.1 | 93.1 | 97.5 | 84.5 | 107.2 | 67.7 | 90.1 | 90.1 | 93.7 | 82.8 | 102.9 | 66.2 | 86.9 | 86.9 | 89.7 | 81.1 | 98.3 | 64.1 |
| | 90 | 101.1 | 101.1 | 102.3 | 100.0 | 111.5 | 82.7 | 98.1 | 98.1 | 98.8 | 98.5 | 107.4 | 81.1 | 94.9 | 94.9 | 95.0 | 95.0 | 103.1 | 79.5 | 91.6 | 91.6 | 91.7 | 91.7 | 98.7 | 77.8 |
| 3400 | 75 | 92.6 | 78.7 | 102.1 | 60.8 | 111.8 | 41.5 | 89.1 | 77.0 | 98.2 | 59.2 | 107.4 | 40.0 | 85.5 | 75.3 | 94.2 | 57.6 | 102.9 | 38.4 | 81.7 | 73.5 | 90.0 | 56.0 | 98.2 | 36.8 |
| | 80 | 93.9 | 93.8 | 102.3 | 75.4 | 112.4 | 56.8 | 90.5 | 90.5 | 98.5 | 73.7 | 108.1 | 55.3 | 87.4 | 87.4 | 94.5 | 72.0 | 103.7 | 53.8 | 84.1 | 84.1 | 90.3 | 70.2 | 99.2 | 52.2 |
| | 85 | 98.6 | 98.6 | 102.7 | 90.1 | 112.8 | 72.0 | 95.6 | 95.6 | 99.0 | 88.5 | 108.3 | 70.1 | 92.4 | 92.4 | 95.0 | 86.8 | 104.0 | 68.5 | 89.0 | 89.0 | 91.0 | 85.1 | 99.4 | 66.7 |
| | 90 | 103.8 | 103.8 | 103.9 | 103.9 | 112.9 | 86.4 | 100.7 | 100.7 | 100.8 | 100.8 | 108.7 | 84.8 | 97.4 | 97.4 | 97.5 | 97.5 | 104.4 | 83.2 | 94.0 | 94.0 | 94.0 | 94.0 | 99.9 | 81.4 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-4 — Gross Cooling Capacities (kW) TTA085A Condensing Unit with TWE100A Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | | | | | | | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | | | | | 19.4 | | | | | | 22.8 | | | | | | 16.1 | | | | | | 19.4 | | | | | | 22.8 | | | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | | | | | | | | |
| 4248 | 24 | 25.7 | 20.1 | 28.4 | 16.7 | 31.4 | 11.5 | 24.7 | 19.6 | 27.4 | 16.3 | 30.2 | 11.1 | 23.7 | 19.2 | 26.3 | 15.9 | 29.0 | 10.7 | 22.7 | 18.6 | 25.2 | 15.4 | 27.7 | 10.2 | 22.9 | 22.0 | 25.2 | 18.0 | 27.9 | 13.7 | | | | |
| | 27 | 25.8 | 23.4 | 28.5 | 19.4 | 31.4 | 15.1 | 24.9 | 23.0 | 27.5 | 19.0 | 30.3 | 14.6 | 23.9 | 22.5 | 26.4 | 18.5 | 29.1 | 14.2 | 23.9 | 23.9 | 25.3 | 21.3 | 28.0 | 17.2 | 23.9 | 23.9 | 25.3 | 21.3 | 28.0 | 17.2 | | | | |
| | 29 | 26.3 | 26.3 | 28.5 | 22.7 | 31.5 | 18.5 | 25.5 | 25.5 | 27.5 | 22.2 | 30.4 | 18.1 | 24.7 | 24.7 | 26.4 | 21.8 | 29.2 | 17.6 | 23.9 | 23.9 | 25.3 | 21.3 | 28.0 | 17.2 | 23.9 | 23.9 | 25.3 | 21.3 | 28.0 | 17.2 | | | | |
| | 32 | 27.6 | 27.6 | 28.7 | 26.1 | 31.6 | 21.9 | 26.8 | 26.8 | 27.7 | 25.6 | 30.4 | 21.5 | 26.0 | 26.0 | 26.6 | 25.1 | 29.2 | 21.0 | 25.1 | 25.1 | 25.6 | 24.7 | 27.7 | 28.0 | 20.5 | 25.1 | 25.1 | 25.6 | 24.7 | 27.7 | 28.0 | 20.5 | | |
| 4757 | 24 | 26.2 | 21.1 | 29.0 | 16.6 | 31.9 | 11.7 | 25.3 | 20.7 | 27.9 | 16.2 | 30.7 | 11.3 | 24.2 | 20.2 | 26.8 | 15.7 | 29.4 | 10.9 | 23.2 | 19.6 | 25.6 | 15.2 | 28.1 | 10.4 | 23.5 | 23.4 | 25.7 | 18.9 | 28.3 | 14.3 | | | | |
| | 27 | 26.4 | 24.8 | 29.1 | 20.4 | 32.0 | 15.6 | 25.5 | 24.4 | 28.0 | 19.9 | 30.8 | 15.2 | 24.5 | 23.9 | 26.9 | 19.4 | 29.6 | 14.7 | 23.5 | 23.4 | 25.7 | 18.9 | 28.3 | 14.3 | 23.5 | 23.4 | 25.7 | 18.9 | 28.3 | 14.3 | | | | |
| | 29 | 27.3 | 27.3 | 29.1 | 24.0 | 32.1 | 19.4 | 26.5 | 26.5 | 28.1 | 23.5 | 30.9 | 19.0 | 25.6 | 25.6 | 27.0 | 23.0 | 29.7 | 18.5 | 24.7 | 24.7 | 25.8 | 22.5 | 28.4 | 18.1 | 24.7 | 24.7 | 25.8 | 22.5 | 28.4 | 18.1 | | | | |
| | 32 | 28.7 | 28.7 | 29.3 | 27.7 | 32.1 | 23.1 | 27.9 | 27.9 | 28.3 | 27.2 | 31.0 | 22.6 | 27.0 | 27.0 | 27.3 | 26.8 | 29.8 | 22.1 | 26.1 | 26.1 | 26.1 | 26.1 | 28.5 | 21.7 | 26.1 | 26.1 | 26.1 | 26.1 | 28.5 | 21.7 | | | | |
| 5267 | 24 | 26.7 | 22.1 | 29.5 | 17.2 | 32.4 | 12.0 | 25.7 | 21.6 | 28.4 | 16.8 | 31.1 | 11.5 | 24.7 | 21.1 | 27.2 | 16.3 | 29.8 | 11.1 | 23.6 | 20.6 | 26.0 | 15.8 | 28.5 | 10.6 | 23.6 | 20.6 | 26.0 | 15.8 | 28.5 | 10.6 | | | | |
| | 27 | 27.0 | 26.2 | 29.5 | 21.2 | 32.5 | 16.1 | 26.0 | 25.7 | 28.4 | 20.7 | 31.3 | 15.7 | 25.0 | 25.0 | 27.3 | 20.2 | 30.0 | 15.2 | 24.0 | 24.0 | 26.1 | 19.7 | 28.7 | 14.8 | 24.0 | 24.0 | 26.1 | 19.7 | 28.7 | 14.8 | | | | |
| | 29 | 28.1 | 28.1 | 29.6 | 25.2 | 32.6 | 20.3 | 27.3 | 27.3 | 28.5 | 24.7 | 31.4 | 19.8 | 26.4 | 26.4 | 27.4 | 24.2 | 30.1 | 19.4 | 25.4 | 25.4 | 26.3 | 23.7 | 28.8 | 18.8 | 25.4 | 25.4 | 26.3 | 23.7 | 28.8 | 18.8 | | | | |
| | 32 | 29.6 | 29.6 | 30.0 | 29.3 | 32.6 | 24.2 | 28.7 | 28.7 | 28.9 | 28.8 | 31.4 | 23.7 | 27.8 | 27.8 | 27.8 | 27.8 | 30.2 | 23.3 | 26.8 | 26.8 | 26.9 | 26.9 | 28.9 | 22.8 | 26.8 | 26.8 | 26.9 | 26.9 | 28.9 | 22.8 | | | | |
| 5777 | 24 | 27.1 | 23.1 | 29.9 | 17.8 | 32.7 | 12.1 | 26.1 | 22.6 | 28.8 | 17.3 | 31.5 | 11.7 | 25.0 | 22.0 | 27.6 | 16.9 | 30.1 | 11.2 | 23.9 | 21.5 | 26.4 | 16.4 | 28.8 | 10.8 | 24.6 | 24.6 | 26.4 | 20.6 | 29.0 | 15.3 | | | | |
| | 27 | 27.5 | 27.5 | 30.0 | 22.1 | 32.9 | 16.6 | 26.5 | 26.5 | 28.8 | 21.6 | 31.7 | 16.2 | 25.6 | 25.6 | 27.7 | 21.1 | 30.4 | 15.7 | 24.6 | 24.6 | 26.4 | 20.6 | 29.0 | 15.3 | 24.6 | 24.6 | 26.4 | 20.6 | 29.0 | 15.3 | | | | |
| | 29 | 28.9 | 28.9 | 30.1 | 26.4 | 33.0 | 21.1 | 28.0 | 28.0 | 29.0 | 25.9 | 31.7 | 20.5 | 27.0 | 27.0 | 27.8 | 25.4 | 30.4 | 20.0 | 26.1 | 26.1 | 26.6 | 24.9 | 29.1 | 19.5 | 26.1 | 26.1 | 26.6 | 24.9 | 29.1 | 19.5 | | | | |
| | 32 | 30.4 | 30.4 | 30.4 | 30.4 | 33.1 | 25.3 | 29.5 | 29.5 | 29.5 | 29.5 | 31.8 | 24.8 | 28.5 | 28.5 | 28.6 | 28.6 | 30.6 | 24.4 | 27.5 | 27.5 | 27.5 | 27.5 | 29.2 | 23.8 | 27.5 | 27.5 | 27.5 | 27.5 | 29.2 | 23.8 | | | | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data System

Table PD-5 — Gross Cooling Capacities (MBh) TTA100A Condensing Unit with TWE100A Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3025 | 75 | 104.7 | 81.7 | 115.8 | 68.5 | 127.7 | 46.8 | 100.9 | 79.7 | 111.5 | 66.8 | 123.0 | 45.1 | 96.8 | 77.7 | 107.1 | 65.0 | 118.1 | 43.5 | 92.4 | 75.5 | 102.5 | 63.2 | 112.9 | 41.7 |
| | 80 | 105.2 | 95.0 | 116.1 | 78.6 | 127.8 | 61.1 | 101.5 | 93.1 | 111.9 | 76.8 | 123.2 | 59.3 | 97.5 | 91.1 | 107.5 | 75.0 | 118.3 | 57.5 | 93.3 | 89.0 | 102.9 | 73.0 | 113.3 | 55.6 |
| | 85 | 106.9 | 106.9 | 116.3 | 92.0 | 128.1 | 74.9 | 103.8 | 103.8 | 112.1 | 90.1 | 123.5 | 73.1 | 100.4 | 100.4 | 107.7 | 88.1 | 118.7 | 71.3 | 96.9 | 96.9 | 103.1 | 86.1 | 113.7 | 69.5 |
| | 90 | 112.3 | 112.3 | 116.8 | 105.4 | 128.4 | 88.7 | 109.1 | 109.1 | 112.7 | 103.5 | 123.8 | 86.9 | 105.7 | 105.7 | 108.4 | 101.6 | 119.0 | 85.1 | 102.1 | 102.1 | 104.1 | 99.7 | 113.8 | 82.9 |
| 3350 | 75 | 106.8 | 85.3 | 118.0 | 67.1 | 129.8 | 47.6 | 102.8 | 83.3 | 113.6 | 65.3 | 124.9 | 46.0 | 98.6 | 81.2 | 109.0 | 63.4 | 119.8 | 44.2 | 94.2 | 79.1 | 104.3 | 61.5 | 114.5 | 42.4 |
| | 80 | 107.5 | 99.9 | 118.3 | 82.1 | 130.0 | 63.0 | 103.7 | 98.0 | 113.9 | 80.3 | 125.2 | 61.2 | 99.6 | 96.0 | 109.4 | 78.4 | 120.2 | 59.4 | 95.4 | 93.9 | 104.5 | 76.0 | 115.0 | 57.5 |
| | 85 | 110.4 | 110.4 | 118.4 | 96.5 | 130.3 | 78.1 | 107.1 | 107.1 | 114.1 | 94.6 | 125.5 | 76.3 | 103.7 | 103.7 | 109.6 | 92.6 | 120.6 | 74.5 | 100.0 | 100.0 | 104.9 | 90.5 | 115.4 | 72.6 |
| | 90 | 116.1 | 116.1 | 119.2 | 111.2 | 130.5 | 93.1 | 112.7 | 112.7 | 115.0 | 109.3 | 125.6 | 90.9 | 109.1 | 109.1 | 110.7 | 107.4 | 120.7 | 89.0 | 105.4 | 105.4 | 106.3 | 105.4 | 115.6 | 87.0 |
| 3675 | 75 | 108.6 | 88.8 | 119.7 | 69.3 | 131.5 | 48.5 | 104.5 | 86.8 | 115.2 | 67.4 | 126.5 | 46.8 | 100.2 | 84.7 | 110.6 | 65.5 | 121.2 | 44.9 | 95.6 | 82.4 | 105.7 | 63.5 | 115.8 | 43.0 |
| | 80 | 109.5 | 104.7 | 120.1 | 85.4 | 131.7 | 64.8 | 105.6 | 102.7 | 115.4 | 83.2 | 126.8 | 63.1 | 101.6 | 100.7 | 110.8 | 81.2 | 121.7 | 61.2 | 97.0 | 97.0 | 105.9 | 79.1 | 116.4 | 59.3 |
| | 85 | 113.5 | 113.5 | 120.3 | 100.8 | 132.1 | 81.1 | 110.1 | 110.1 | 115.8 | 98.8 | 127.2 | 79.3 | 106.4 | 106.4 | 111.2 | 96.8 | 122.1 | 77.5 | 102.6 | 102.6 | 106.5 | 94.8 | 116.8 | 75.6 |
| | 90 | 119.4 | 119.4 | 121.4 | 116.8 | 132.2 | 96.8 | 115.8 | 115.8 | 117.2 | 114.9 | 127.3 | 94.9 | 112.1 | 112.1 | 112.2 | 112.2 | 122.3 | 92.9 | 108.2 | 108.2 | 108.3 | 108.3 | 117.0 | 90.9 |
| 4000 | 75 | 110.1 | 92.1 | 121.2 | 71.3 | 132.9 | 49.2 | 105.9 | 90.0 | 116.6 | 69.4 | 127.8 | 47.4 | 101.5 | 87.9 | 111.9 | 67.5 | 122.4 | 45.5 | 96.9 | 85.7 | 106.9 | 65.6 | 116.8 | 43.6 |
| | 80 | 111.4 | 109.2 | 121.4 | 88.2 | 133.2 | 66.6 | 107.5 | 107.3 | 116.9 | 86.2 | 128.2 | 64.8 | 103.1 | 103.1 | 112.1 | 84.2 | 123.0 | 63.0 | 99.3 | 99.3 | 107.2 | 82.0 | 117.6 | 61.1 |
| | 85 | 116.3 | 116.3 | 121.9 | 105.0 | 133.6 | 84.0 | 112.7 | 112.7 | 117.4 | 103.0 | 128.6 | 82.2 | 108.9 | 108.9 | 112.7 | 101.0 | 123.4 | 80.4 | 105.0 | 105.0 | 107.9 | 98.9 | 117.8 | 78.0 |
| | 90 | 122.3 | 122.3 | 123.5 | 122.3 | 133.8 | 100.7 | 118.6 | 118.6 | 118.7 | 118.7 | 128.8 | 98.7 | 114.7 | 114.7 | 114.8 | 114.8 | 123.7 | 96.8 | 110.7 | 110.7 | 110.8 | 110.8 | 118.3 | 94.7 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-5 — Gross Cooling Capacities (kW) TTA100A Condensing Unit with TWE100A Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| | | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| m³/h | Enter. Dry Bulb | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 5139 | 24 | 30.7 | 23.9 | 33.9 | 20.1 | 37.4 | 13.7 | 29.5 | 23.3 | 32.7 | 19.6 | 36.0 | 13.2 | 28.3 | 22.7 | 31.4 | 19.0 | 34.6 | 12.7 | 27.1 | 22.1 | 30.0 | 18.5 | 33.1 | 12.2 |
| | 27 | 30.8 | 27.8 | 34.0 | 23.0 | 37.4 | 17.9 | 29.7 | 27.3 | 32.8 | 22.5 | 36.1 | 17.4 | 28.5 | 26.7 | 31.5 | 22.0 | 34.6 | 16.8 | 27.3 | 26.1 | 30.1 | 21.4 | 33.2 | 16.3 |
| | 29 | 31.3 | 31.3 | 34.0 | 26.9 | 37.5 | 21.9 | 30.4 | 30.4 | 32.8 | 26.4 | 36.2 | 21.4 | 29.4 | 29.4 | 31.5 | 25.8 | 34.7 | 20.9 | 28.4 | 28.4 | 30.2 | 25.2 | 33.3 | 20.3 |
| | 32 | 32.9 | 32.9 | 34.2 | 30.9 | 37.6 | 26.0 | 31.9 | 31.9 | 33.0 | 30.3 | 36.2 | 25.5 | 30.9 | 30.9 | 31.8 | 29.8 | 34.8 | 24.9 | 29.9 | 29.9 | 30.5 | 29.2 | 33.3 | 24.3 |
| 5692 | 24 | 31.3 | 25.0 | 34.5 | 19.7 | 38.0 | 13.9 | 30.1 | 24.4 | 33.3 | 19.1 | 36.6 | 13.5 | 28.9 | 23.8 | 31.9 | 18.6 | 35.1 | 12.9 | 27.6 | 23.1 | 30.5 | 18.0 | 33.5 | 12.4 |
| | 27 | 31.5 | 29.3 | 34.6 | 24.0 | 38.1 | 18.5 | 30.3 | 28.7 | 33.4 | 23.5 | 36.7 | 17.9 | 29.2 | 28.1 | 32.0 | 23.0 | 35.2 | 17.4 | 27.9 | 27.5 | 30.6 | 22.3 | 33.7 | 16.8 |
| | 29 | 32.3 | 32.3 | 34.7 | 28.3 | 38.1 | 22.9 | 31.4 | 31.4 | 33.4 | 27.7 | 36.8 | 22.3 | 30.3 | 30.3 | 32.1 | 27.1 | 35.3 | 21.8 | 29.3 | 29.3 | 30.7 | 26.5 | 33.8 | 21.3 |
| | 32 | 34.0 | 34.0 | 34.9 | 32.6 | 38.2 | 27.2 | 33.0 | 33.0 | 33.7 | 32.0 | 36.8 | 26.6 | 31.9 | 31.9 | 32.4 | 31.4 | 35.3 | 26.1 | 30.9 | 30.9 | 31.1 | 30.9 | 33.8 | 25.5 |
| 6244 | 24 | 31.8 | 26.0 | 35.1 | 20.3 | 38.5 | 14.2 | 30.6 | 25.4 | 33.7 | 19.7 | 37.0 | 13.7 | 29.3 | 24.8 | 32.4 | 19.2 | 35.5 | 13.2 | 28.0 | 24.1 | 30.9 | 18.6 | 33.9 | 12.6 |
| | 27 | 32.1 | 30.6 | 35.2 | 25.0 | 38.6 | 19.0 | 30.9 | 30.1 | 33.8 | 24.4 | 37.1 | 18.5 | 29.7 | 29.5 | 32.4 | 23.8 | 35.6 | 17.9 | 28.4 | 28.4 | 31.0 | 23.2 | 34.1 | 17.4 |
| | 29 | 33.2 | 33.2 | 35.2 | 29.5 | 38.7 | 23.7 | 32.2 | 32.2 | 33.9 | 28.9 | 37.2 | 23.2 | 31.2 | 31.2 | 32.6 | 28.4 | 35.8 | 22.7 | 30.0 | 30.0 | 31.2 | 27.8 | 34.2 | 22.1 |
| | 32 | 35.0 | 35.0 | 35.6 | 34.2 | 38.7 | 28.3 | 33.9 | 33.9 | 34.3 | 33.7 | 37.3 | 27.8 | 32.8 | 32.8 | 32.8 | 32.8 | 35.8 | 27.2 | 31.7 | 31.7 | 31.7 | 31.7 | 34.3 | 26.6 |
| 6796 | 24 | 32.2 | 27.0 | 35.5 | 20.9 | 38.9 | 14.4 | 31.0 | 26.4 | 34.2 | 20.3 | 37.4 | 13.9 | 29.7 | 25.7 | 32.8 | 19.8 | 35.8 | 13.3 | 28.4 | 25.1 | 31.3 | 19.2 | 34.2 | 12.8 |
| | 27 | 32.6 | 32.0 | 35.6 | 25.8 | 39.0 | 19.5 | 31.5 | 31.4 | 34.2 | 25.2 | 37.5 | 19.0 | 30.2 | 30.2 | 32.8 | 24.6 | 36.0 | 18.4 | 29.1 | 29.1 | 31.4 | 24.0 | 34.4 | 17.9 |
| | 29 | 34.0 | 34.0 | 35.7 | 30.7 | 39.1 | 24.6 | 33.0 | 33.0 | 34.4 | 30.2 | 37.7 | 24.1 | 31.9 | 31.9 | 33.0 | 29.6 | 36.1 | 23.5 | 30.7 | 30.7 | 31.6 | 29.0 | 34.5 | 22.8 |
| | 32 | 35.8 | 35.8 | 36.2 | 35.8 | 39.2 | 29.5 | 34.7 | 34.7 | 34.8 | 34.8 | 37.7 | 28.9 | 33.6 | 33.6 | 33.6 | 33.6 | 36.2 | 28.3 | 32.4 | 32.4 | 32.4 | 32.4 | 34.6 | 27.7 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data System

Table PD-6 — Gross Cooling Capacities (MBh) TTA100B Condensing Unit with TWE100B Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3025 | 75 | 103.0 | 80.9 | 114.1 | 68.0 | 125.6 | 46.6 | 99.4 | 79.0 | 110.0 | 66.4 | 120.7 | 44.9 | 95.6 | 77.1 | 105.7 | 64.6 | 115.6 | 43.2 | 91.7 | 75.1 | 101.3 | 62.8 | 110.3 | 41.3 |
| | 80 | 103.7 | 94.4 | 114.8 | 78.7 | 126.6 | 61.2 | 100.2 | 92.5 | 110.3 | 76.3 | 122.0 | 59.4 | 96.5 | 90.6 | 106.1 | 74.4 | 117.2 | 57.6 | 92.7 | 88.6 | 101.7 | 72.3 | 112.0 | 55.7 |
| | 85 | 105.9 | 105.9 | 115.1 | 91.6 | 127.3 | 75.2 | 102.9 | 102.9 | 111.1 | 89.7 | 122.8 | 73.5 | 99.7 | 99.7 | 106.8 | 87.7 | 118.0 | 71.7 | 96.4 | 96.4 | 102.4 | 85.7 | 112.9 | 69.8 |
| | 90 | 111.5 | 111.5 | 115.8 | 105.1 | 127.4 | 88.5 | 108.4 | 108.4 | 111.9 | 103.3 | 123.0 | 86.7 | 105.2 | 105.2 | 107.8 | 101.3 | 118.3 | 84.7 | 101.7 | 101.7 | 103.5 | 99.3 | 113.3 | 82.6 |
| 3350 | 75 | 105.2 | 84.5 | 116.3 | 67.0 | 127.5 | 47.3 | 101.4 | 82.6 | 112.1 | 65.2 | 122.5 | 45.6 | 97.5 | 80.6 | 107.6 | 63.4 | 117.2 | 43.8 | 93.4 | 78.5 | 103.0 | 61.5 | 111.7 | 41.9 |
| | 80 | 106.1 | 99.2 | 116.6 | 81.5 | 128.8 | 63.2 | 102.4 | 97.3 | 112.4 | 79.6 | 124.0 | 61.4 | 98.6 | 95.4 | 108.1 | 77.5 | 119.0 | 59.6 | 94.7 | 93.4 | 103.5 | 75.4 | 113.7 | 57.7 |
| | 85 | 109.5 | 109.5 | 117.4 | 96.1 | 129.6 | 78.5 | 106.3 | 106.3 | 113.2 | 94.2 | 124.9 | 76.7 | 103.0 | 103.0 | 108.8 | 92.2 | 120.0 | 74.9 | 99.5 | 99.5 | 104.2 | 90.0 | 114.2 | 72.1 |
| | 90 | 115.4 | 115.4 | 118.3 | 110.9 | 129.8 | 92.7 | 112.1 | 112.1 | 114.3 | 109.0 | 125.2 | 90.8 | 108.7 | 108.7 | 110.1 | 107.1 | 120.4 | 88.8 | 105.0 | 105.0 | 105.8 | 105.1 | 115.2 | 86.7 |
| 3675 | 75 | 107.0 | 87.9 | 118.1 | 69.2 | 129.0 | 48.1 | 103.0 | 85.9 | 113.7 | 67.4 | 123.9 | 46.4 | 99.0 | 83.9 | 109.1 | 65.5 | 118.5 | 44.6 | 94.8 | 81.8 | 103.6 | 62.8 | 112.8 | 42.7 |
| | 80 | 108.2 | 103.9 | 118.6 | 84.6 | 130.6 | 65.1 | 104.4 | 102.0 | 114.3 | 82.6 | 125.8 | 63.3 | 100.6 | 100.0 | 109.7 | 80.6 | 120.6 | 61.5 | 96.5 | 96.5 | 105.0 | 78.4 | 115.1 | 59.5 |
| | 85 | 112.6 | 112.6 | 119.3 | 100.4 | 131.5 | 81.5 | 109.3 | 109.3 | 115.0 | 98.4 | 126.2 | 79.0 | 105.8 | 105.8 | 110.5 | 96.4 | 121.1 | 76.9 | 102.1 | 102.1 | 105.9 | 94.3 | 115.8 | 74.7 |
| | 90 | 118.8 | 118.8 | 120.7 | 116.5 | 131.8 | 96.7 | 115.4 | 115.4 | 116.6 | 114.6 | 127.2 | 94.8 | 111.7 | 111.7 | 111.8 | 111.8 | 122.1 | 92.7 | 107.8 | 107.8 | 107.9 | 107.9 | 116.8 | 90.6 |
| 4000 | 75 | 108.5 | 91.2 | 119.7 | 71.3 | 130.4 | 48.9 | 104.5 | 89.2 | 115.2 | 69.5 | 125.1 | 47.2 | 100.4 | 87.1 | 109.7 | 66.6 | 119.5 | 45.2 | 96.1 | 84.9 | 104.9 | 64.4 | 113.6 | 43.3 |
| | 80 | 110.1 | 108.5 | 120.2 | 87.6 | 132.2 | 66.9 | 105.8 | 105.8 | 115.8 | 85.6 | 127.2 | 65.1 | 102.3 | 102.3 | 111.2 | 83.5 | 121.9 | 63.2 | 98.6 | 98.6 | 106.3 | 81.2 | 116.3 | 61.3 |
| | 85 | 115.5 | 115.5 | 121.0 | 104.5 | 132.6 | 83.7 | 112.0 | 112.0 | 116.7 | 102.6 | 127.8 | 81.7 | 108.3 | 108.3 | 112.1 | 100.5 | 122.6 | 79.6 | 104.4 | 104.4 | 107.3 | 98.3 | 117.1 | 77.3 |
| | 90 | 121.8 | 121.8 | 122.8 | 121.9 | 133.5 | 100.5 | 118.2 | 118.2 | 118.3 | 118.3 | 128.8 | 98.6 | 114.4 | 114.4 | 114.5 | 114.5 | 123.6 | 96.5 | 110.4 | 110.4 | 110.5 | 110.5 | 118.2 | 94.3 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-6 — Gross Cooling Capacities (kW) TTA100B Condensing Unit with TWE100B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | 35.0 | | | | 40.6 | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 5139 | 24 | 30.2 | 23.7 | 33.4 | 19.9 | 36.8 | 13.6 | 29.1 | 23.1 | 32.2 | 19.4 | 35.3 | 13.1 | 28.0 | 22.6 | 31.0 | 18.9 | 33.9 | 12.6 |
| | 27 | 30.4 | 27.6 | 33.6 | 23.0 | 37.1 | 17.9 | 29.3 | 27.1 | 32.3 | 22.4 | 35.7 | 17.4 | 28.3 | 26.5 | 31.1 | 21.8 | 34.3 | 16.9 |
| | 29 | 31.0 | 31.0 | 33.7 | 26.8 | 37.3 | 22.0 | 30.1 | 30.1 | 32.5 | 26.3 | 36.0 | 21.5 | 29.2 | 29.2 | 31.3 | 25.7 | 34.6 | 21.0 |
| | 32 | 32.7 | 32.7 | 33.9 | 30.8 | 37.3 | 25.9 | 31.8 | 31.8 | 32.8 | 30.2 | 36.0 | 25.4 | 30.8 | 30.8 | 31.5 | 29.7 | 34.6 | 24.8 |
| 5692 | 24 | 30.8 | 24.7 | 34.1 | 19.6 | 37.3 | 13.8 | 29.7 | 24.2 | 32.8 | 19.1 | 35.9 | 13.4 | 28.5 | 23.6 | 31.5 | 18.6 | 34.3 | 12.8 |
| | 27 | 31.1 | 29.1 | 34.1 | 23.9 | 37.7 | 18.5 | 30.0 | 28.5 | 32.9 | 23.3 | 36.3 | 18.0 | 28.9 | 27.9 | 31.6 | 22.7 | 34.9 | 17.5 |
| | 29 | 32.1 | 32.1 | 34.4 | 28.1 | 37.9 | 23.0 | 31.1 | 31.1 | 33.2 | 27.6 | 36.6 | 22.5 | 30.1 | 30.1 | 31.9 | 27.0 | 35.1 | 21.9 |
| | 32 | 33.8 | 33.8 | 34.6 | 32.5 | 38.0 | 27.1 | 32.8 | 32.8 | 33.5 | 31.9 | 36.7 | 26.6 | 31.8 | 31.8 | 32.3 | 31.4 | 35.2 | 26.0 |
| 6244 | 24 | 31.3 | 25.7 | 34.6 | 20.3 | 37.8 | 14.1 | 30.2 | 25.2 | 33.3 | 19.7 | 36.3 | 13.6 | 29.0 | 24.6 | 32.0 | 19.2 | 34.7 | 13.1 |
| | 27 | 31.7 | 30.4 | 34.7 | 24.8 | 38.2 | 19.1 | 30.6 | 29.9 | 33.5 | 24.2 | 36.8 | 18.5 | 29.5 | 29.3 | 32.1 | 23.6 | 35.3 | 18.0 |
| | 29 | 33.0 | 33.0 | 34.9 | 29.4 | 38.5 | 23.9 | 32.0 | 32.0 | 33.7 | 28.8 | 36.9 | 23.1 | 31.0 | 31.0 | 32.4 | 28.2 | 35.5 | 22.5 |
| | 32 | 34.8 | 34.8 | 35.3 | 34.1 | 38.6 | 28.3 | 33.8 | 33.8 | 34.1 | 33.6 | 37.2 | 27.8 | 32.7 | 32.7 | 32.7 | 32.7 | 35.8 | 27.1 |
| 6796 | 24 | 31.8 | 26.7 | 35.0 | 20.9 | 38.2 | 14.3 | 30.6 | 26.1 | 33.7 | 20.3 | 36.6 | 13.8 | 29.4 | 25.5 | 32.1 | 19.5 | 35.0 | 13.2 |
| | 27 | 32.2 | 31.8 | 35.2 | 25.7 | 38.7 | 19.6 | 31.0 | 31.0 | 33.9 | 25.1 | 37.3 | 19.1 | 30.0 | 30.0 | 32.5 | 24.4 | 35.7 | 18.5 |
| | 29 | 33.8 | 33.8 | 35.4 | 30.6 | 38.8 | 24.5 | 32.8 | 32.8 | 34.2 | 30.0 | 37.4 | 23.9 | 31.7 | 31.7 | 32.8 | 29.4 | 35.9 | 23.3 |
| | 32 | 35.7 | 35.7 | 36.0 | 35.7 | 39.1 | 29.4 | 34.6 | 34.6 | 34.6 | 34.6 | 37.7 | 28.9 | 33.5 | 33.5 | 33.5 | 33.5 | 36.2 | 28.3 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data System

Table PD-7 — Gross Cooling Capacities (MBh) - Both Compressors - TTA100C Condensing Unit with TWE100A Air Handler (I-P)

| CFM | | Enter. Dry Bulb | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-----|
| | | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| | | | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | 67 | | 73 | | 61 | 67 | | 73 | | 61 | 67 | | 73 | | 61 | 67 | | 73 | | 61 | 67 | | 73 | |
| Airflow | | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3025 | 75 | 103.7 | 81.4 | 114.8 | 68.3 | 126.3 | 46.7 | 100.1 | 79.6 | 110.8 | 66.7 | 121.8 | 45.1 | 96.3 | 77.6 | 106.5 | 65.0 | 116.9 | 43.5 | 92.3 | 75.6 | 102.0 | 63.2 | 111.6 | 41.7 | |
| | 80 | 104.3 | 94.9 | 115.3 | 78.8 | 126.8 | 61.2 | 100.8 | 93.0 | 111.3 | 77.1 | 122.4 | 59.5 | 97.1 | 91.1 | 107.1 | 75.3 | 117.7 | 57.8 | 93.3 | 89.2 | 102.4 | 72.8 | 112.7 | 55.9 | |
| | 85 | 106.4 | 106.4 | 115.5 | 92.0 | 127.3 | 75.1 | 103.5 | 103.5 | 111.6 | 90.2 | 123.0 | 73.5 | 100.3 | 100.3 | 107.4 | 88.2 | 118.4 | 71.8 | 97.0 | 97.0 | 103.0 | 86.2 | 113.4 | 69.9 | |
| | 90 | 112.0 | 112.0 | 116.2 | 105.5 | 127.6 | 89.0 | 108.9 | 108.9 | 112.3 | 103.7 | 123.1 | 86.9 | 105.7 | 105.7 | 108.3 | 101.8 | 118.5 | 85.0 | 102.2 | 102.2 | 104.0 | 99.9 | 113.6 | 83.0 | |
| 3350 | 75 | 105.8 | 85.0 | 117.0 | 67.2 | 128.2 | 47.5 | 102.1 | 83.1 | 112.8 | 65.5 | 123.5 | 45.9 | 98.1 | 81.2 | 108.4 | 63.6 | 118.5 | 44.1 | 94.0 | 79.1 | 103.8 | 61.7 | 113.1 | 42.3 | |
| | 80 | 106.7 | 99.8 | 117.5 | 82.4 | 128.9 | 63.1 | 103.1 | 97.9 | 113.0 | 80.1 | 124.4 | 61.5 | 99.3 | 96.0 | 108.7 | 78.1 | 119.6 | 59.7 | 95.4 | 94.0 | 104.1 | 76.0 | 114.4 | 57.8 | |
| | 85 | 110.0 | 110.0 | 117.7 | 96.5 | 129.4 | 78.3 | 106.9 | 106.9 | 113.7 | 94.6 | 125.0 | 76.7 | 103.5 | 103.5 | 109.3 | 92.7 | 120.2 | 74.9 | 100.0 | 100.0 | 104.8 | 90.6 | 115.1 | 73.1 | |
| | 90 | 115.8 | 115.8 | 118.6 | 111.3 | 129.5 | 92.8 | 112.5 | 112.5 | 114.8 | 109.5 | 125.1 | 91.0 | 109.1 | 109.1 | 110.6 | 107.6 | 120.4 | 89.1 | 105.4 | 105.4 | 106.3 | 105.6 | 115.4 | 87.1 | |
| 3675 | 75 | 107.6 | 88.5 | 118.8 | 69.4 | 129.7 | 48.3 | 103.7 | 86.6 | 114.5 | 67.6 | 125.0 | 46.7 | 99.7 | 84.5 | 109.9 | 65.8 | 119.8 | 44.9 | 95.5 | 82.4 | 105.2 | 63.9 | 114.2 | 43.0 | |
| | 80 | 108.8 | 104.5 | 119.0 | 85.1 | 130.6 | 65.0 | 105.1 | 102.7 | 114.8 | 83.2 | 126.0 | 63.3 | 101.3 | 100.7 | 110.3 | 81.1 | 121.1 | 61.5 | 97.0 | 97.0 | 105.6 | 79.0 | 115.8 | 59.6 | |
| | 85 | 113.1 | 113.1 | 119.6 | 100.8 | 131.2 | 81.4 | 109.8 | 109.8 | 115.4 | 98.9 | 126.6 | 79.7 | 106.3 | 106.3 | 111.0 | 96.9 | 121.7 | 77.9 | 102.6 | 102.6 | 106.4 | 94.8 | 116.1 | 75.2 | |
| | 90 | 119.0 | 119.0 | 120.9 | 116.9 | 131.4 | 96.8 | 115.7 | 115.7 | 117.0 | 115.1 | 126.9 | 95.0 | 112.1 | 112.1 | 112.2 | 112.2 | 122.0 | 93.0 | 108.2 | 108.2 | 108.3 | 108.3 | 116.9 | 90.9 | |
| 4000 | 75 | 109.1 | 91.8 | 120.2 | 71.5 | 131.1 | 49.1 | 105.2 | 89.8 | 115.9 | 69.7 | 126.2 | 47.4 | 101.1 | 87.8 | 111.2 | 67.8 | 120.9 | 45.5 | 96.8 | 85.6 | 105.8 | 65.1 | 115.2 | 43.6 | |
| | 80 | 110.7 | 109.1 | 120.6 | 88.0 | 132.1 | 66.8 | 106.4 | 106.4 | 116.3 | 86.1 | 127.4 | 65.1 | 102.9 | 102.9 | 111.7 | 84.1 | 122.4 | 63.3 | 99.2 | 99.2 | 106.9 | 81.9 | 116.9 | 61.4 | |
| | 85 | 115.9 | 115.9 | 121.2 | 104.9 | 132.7 | 84.3 | 112.5 | 112.5 | 117.0 | 103.1 | 127.7 | 81.9 | 108.8 | 108.8 | 112.6 | 101.1 | 122.7 | 80.0 | 105.0 | 105.0 | 107.9 | 98.9 | 117.4 | 77.8 | |
| | 90 | 121.9 | 121.9 | 123.0 | 122.3 | 133.0 | 100.6 | 118.5 | 118.5 | 118.6 | 118.6 | 128.3 | 98.8 | 114.8 | 114.8 | 114.9 | 114.9 | 123.4 | 96.8 | 110.7 | 110.7 | 110.8 | 110.8 | 118.1 | 94.7 | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-7 — Gross Cooling Capacities (kW) - Both Compressors - TTA100C Condensing Unit with TWE100A Air Handler (SI)

| m³/h | | Enter. Dry Bulb (°C) | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|----|-------------------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| | | | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| Airflow | | 16.1 | 19.4 | | 22.8 | | 16.1 | 19.4 | | 22.8 | | 16.1 | 19.4 | | 22.8 | | 16.1 | 19.4 | | 22.8 | | | | | | |
| | | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | |
| 5139 | 24 | 30.4 | 23.8 | 33.6 | 20.0 | 37.0 | 13.7 | 29.3 | 23.3 | 32.4 | 19.5 | 35.7 | 13.2 | 28.2 | 22.7 | 31.2 | 19.0 | 34.2 | 12.7 | 27.0 | 22.1 | 29.9 | 18.5 | 32.7 | 12.2 | |
| | 27 | 30.5 | 27.8 | 33.8 | 23.1 | 37.1 | 17.9 | 29.5 | 27.2 | 32.6 | 22.6 | 35.8 | 17.4 | 28.4 | 26.7 | 31.4 | 22.1 | 34.5 | 16.9 | 27.3 | 26.1 | 30.0 | 21.3 | 33.0 | 16.4 | |
| | 29 | 31.2 | 31.2 | 33.8 | 26.9 | 37.3 | 22.0 | 30.3 | 30.3 | 32.7 | 26.4 | 36.0 | 21.5 | 29.4 | 29.4 | 31.4 | 25.8 | 34.7 | 21.0 | 28.4 | 28.4 | 30.2 | 25.2 | 33.2 | 20.5 | |
| | 32 | 32.8 | 32.8 | 34.0 | 30.9 | 37.4 | 26.1 | 31.9 | 31.9 | 32.9 | 30.4 | 36.0 | 25.4 | 30.9 | 30.9 | 31.7 | 29.8 | 34.7 | 24.9 | 29.9 | 29.9 | 30.5 | 29.2 | 33.3 | 24.3 | |
| 5692 | 24 | 31.0 | 24.9 | 34.3 | 19.7 | 37.5 | 13.9 | 29.9 | 24.3 | 33.0 | 19.2 | 36.2 | 13.4 | 28.7 | 23.8 | 31.7 | 18.6 | 34.7 | 12.9 | 27.5 | 23.2 | 30.4 | 18.1 | 33.1 | 12.4 | |
| | 27 | 31.2 | 29.2 | 34.4 | 24.1 | 37.7 | 18.5 | 30.2 | 28.7 | 33.1 | 23.4 | 36.4 | 18.0 | 29.1 | 28.1 | 31.8 | 22.9 | 35.0 | 17.5 | 27.9 | 27.5 | 30.5 | 22.3 | 33.5 | 16.9 | |
| | 29 | 32.2 | 32.2 | 34.5 | 28.2 | 37.9 | 22.9 | 31.3 | 31.3 | 33.3 | 27.7 | 36.6 | 22.4 | 30.3 | 30.3 | 32.0 | 27.1 | 35.2 | 21.9 | 29.3 | 29.3 | 30.7 | 26.5 | 33.7 | 21.4 | |
| | 32 | 33.9 | 33.9 | 34.7 | 32.6 | 37.9 | 27.2 | 33.0 | 33.0 | 33.6 | 32.1 | 36.6 | 26.6 | 31.9 | 31.9 | 32.4 | 31.5 | 35.3 | 26.1 | 30.9 | 30.9 | 31.1 | 30.9 | 33.8 | 25.5 | |
| 6244 | 24 | 31.5 | 25.9 | 34.8 | 20.3 | 38.0 | 14.1 | 30.4 | 25.3 | 33.5 | 19.8 | 36.6 | 13.7 | 29.2 | 24.7 | 32.2 | 19.3 | 35.1 | 13.2 | 28.0 | 24.1 | 30.8 | 18.7 | 33.4 | 12.6 | |
| | 27 | 31.9 | 30.6 | 34.8 | 24.9 | 38.2 | 19.0 | 30.8 | 30.1 | 33.6 | 24.3 | 36.9 | 18.5 | 29.7 | 29.5 | 32.3 | 23.8 | 35.5 | 18.0 | 28.4 | 28.4 | 30.9 | 23.1 | 33.9 | 17.5 | |
| | 29 | 33.1 | 33.1 | 35.0 | 29.5 | 38.4 | 23.8 | 32.2 | 32.2 | 33.8 | 29.0 | 37.1 | 23.3 | 31.1 | 31.1 | 32.5 | 28.4 | 35.6 | 22.8 | 30.1 | 30.1 | 31.2 | 27.8 | 34.0 | 22.0 | |
| | 32 | 34.8 | 34.8 | 35.4 | 34.2 | 38.5 | 28.3 | 33.9 | 33.9 | 34.2 | 33.7 | 37.1 | 27.8 | 32.8 | 32.8 | 32.8 | 32.8 | 35.7 | 27.2 | 31.7 | 31.7 | 31.7 | 31.7 | 34.2 | 26.6 | |
| 6796 | 24 | 32.0 | 26.9 | 35.2 | 20.9 | 38.4 | 14.4 | 30.8 | 26.3 | 33.9 | 20.4 | 37.0 | 13.9 | 29.6 | 25.7 | 32.6 | 19.9 | 35.4 | 13.3 | 28.3 | 25.1 | 31.0 | 19.1 | 33.7 | 12.8 | |
| | 27 | 32.4 | 32.0 | 35.3 | 25.8 | 38.7 | 19.5 | 31.2 | 31.2 | 34.1 | 25.2 | 37.3 | 19.1 | 30.1 | 30.1 | 32.7 | 24.6 | 35.8 | 18.5 | 29.1 | 29.1 | 31.3 | 24.0 | 34.2 | 18.0 | |
| | 29 | 33.9 | 33.9 | 35.5 | 30.7 | 38.9 | 24.7 | 32.9 | 32.9 | 34.3 | 30.2 | 37.4 | 24.0 | 31.9 | 31.9 | 33.0 | 29.6 | 35.9 | 23.4 | 30.7 | 30.7 | 31.6 | 29.0 | 34.4 | 22.8 | |
| | 32 | 35.7 | 35.7 | 36.0 | 35.8 | 38.9 | 29.5 | 34.7 | 34.7 | 34.7 | 34.7 | 37.6 | 28.9 | 33.6 | 33.6 | 33.6 | 33.6 | 36.1 | 28.3 | 32.4 | 32.4 | 32.5 | 32.5 | 34.6 | 27.7 | |

Dry coil conditions. Total Gross Cooling Capacity (kW) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Performance Data

System

Table PD-8 — Gross Cooling Capacities (MBh) - Single Compressor - TTA100C Condensing Unit with TWE100A Air Handler (I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3025 | 75 | 63.8 | 62.6 | 69.8 | 46.0 | 76.2 | 29.7 | 61.3 | 61.3 | 67.2 | 45.0 | 73.4 | 28.6 | 59.2 | 59.2 | 64.6 | 43.8 | 70.4 | 27.7 | 57.0 | 57.0 | 61.8 | 42.6 | 67.1 | 26.6 |
| | 80 | 67.3 | 67.3 | 70.1 | 59.5 | 76.9 | 43.1 | 65.2 | 65.2 | 67.6 | 58.5 | 74.0 | 41.8 | 63.0 | 63.0 | 65.0 | 57.4 | 71.1 | 40.7 | 60.7 | 60.7 | 62.2 | 56.3 | 68.1 | 40.8 |
| | 85 | 71.2 | 71.2 | 71.3 | 71.3 | 77.1 | 56.3 | 69.1 | 69.1 | 69.2 | 69.2 | 74.4 | 55.3 | 66.8 | 66.8 | 66.9 | 66.9 | 71.5 | 54.2 | 64.4 | 64.4 | 64.5 | 64.5 | 68.5 | 53.1 |
| | 90 | 75.2 | 75.2 | 75.3 | 75.3 | 77.5 | 69.9 | 73.0 | 73.0 | 73.1 | 73.1 | 74.8 | 69.0 | 70.7 | 70.7 | 70.8 | 70.8 | 72.0 | 67.9 | 68.2 | 68.2 | 68.3 | 68.3 | 69.1 | 66.8 |
| 3350 | 75 | 64.8 | 64.8 | 70.6 | 48.6 | 76.9 | 29.7 | 62.7 | 62.7 | 67.9 | 46.8 | 74.0 | 28.7 | 60.5 | 60.5 | 65.2 | 45.7 | 70.9 | 27.7 | 58.2 | 58.2 | 62.4 | 44.4 | 67.5 | 26.7 |
| | 80 | 68.8 | 68.8 | 70.9 | 62.7 | 77.7 | 44.9 | 66.7 | 66.7 | 68.4 | 61.6 | 74.8 | 44.0 | 64.4 | 64.4 | 65.7 | 60.5 | 71.9 | 43.0 | 62.0 | 62.0 | 63.0 | 59.4 | 68.7 | 42.0 |
| | 85 | 72.9 | 72.9 | 73.0 | 73.0 | 77.9 | 59.1 | 70.7 | 70.7 | 70.8 | 70.8 | 75.1 | 58.1 | 68.4 | 68.4 | 68.4 | 68.4 | 72.2 | 57.0 | 65.9 | 65.9 | 65.9 | 65.9 | 69.1 | 55.9 |
| | 90 | 77.0 | 77.0 | 77.1 | 77.1 | 78.4 | 74.0 | 74.7 | 74.7 | 74.8 | 74.8 | 75.7 | 73.0 | 72.3 | 72.3 | 72.4 | 72.4 | 73.0 | 72.0 | 69.7 | 69.7 | 69.8 | 69.8 | 69.8 | 69.8 |
| 3675 | 75 | 66.0 | 66.0 | 71.2 | 49.7 | 77.4 | 30.2 | 63.9 | 63.9 | 68.5 | 48.6 | 74.4 | 29.2 | 61.6 | 61.6 | 65.8 | 47.4 | 71.2 | 28.2 | 59.3 | 59.3 | 62.9 | 46.2 | 67.8 | 27.2 |
| | 80 | 70.2 | 70.2 | 71.7 | 65.7 | 78.3 | 46.7 | 68.0 | 68.0 | 69.1 | 64.6 | 75.4 | 45.7 | 65.6 | 65.6 | 66.4 | 63.5 | 72.4 | 44.8 | 63.1 | 63.1 | 63.6 | 62.3 | 69.2 | 43.7 |
| | 85 | 74.4 | 74.4 | 74.4 | 74.4 | 78.6 | 61.9 | 72.1 | 72.1 | 72.1 | 72.1 | 75.7 | 60.8 | 69.7 | 69.7 | 69.7 | 69.7 | 72.8 | 59.8 | 67.1 | 67.1 | 67.1 | 67.1 | 69.6 | 58.6 |
| | 90 | 78.6 | 78.6 | 78.7 | 78.7 | 79.3 | 78.0 | 76.2 | 76.2 | 76.3 | 76.3 | 76.3 | 76.3 | 73.7 | 73.7 | 73.8 | 73.8 | 73.8 | 73.8 | 71.0 | 71.0 | 71.1 | 71.1 | 71.1 | 71.1 |
| 4000 | 75 | 67.1 | 67.1 | 71.7 | 51.4 | 77.8 | 30.7 | 64.9 | 64.9 | 69.1 | 50.3 | 74.7 | 29.7 | 62.6 | 62.6 | 66.3 | 49.1 | 71.5 | 28.7 | 60.2 | 60.2 | 63.3 | 47.8 | 68.0 | 27.6 |
| | 80 | 71.4 | 71.4 | 72.3 | 68.6 | 78.8 | 48.3 | 69.1 | 69.1 | 69.8 | 67.5 | 75.9 | 47.4 | 66.7 | 66.7 | 67.1 | 66.4 | 72.9 | 46.4 | 64.1 | 64.1 | 64.2 | 64.2 | 69.6 | 45.4 |
| | 85 | 75.6 | 75.6 | 75.7 | 75.7 | 79.1 | 64.5 | 73.3 | 73.3 | 73.3 | 73.3 | 76.2 | 63.5 | 70.8 | 70.8 | 70.9 | 70.9 | 73.3 | 62.4 | 68.1 | 68.1 | 68.2 | 68.2 | 70.1 | 61.2 |
| | 90 | 79.9 | 79.9 | 80.0 | 80.0 | 80.1 | 80.1 | 77.5 | 77.5 | 77.6 | 77.6 | 77.6 | 77.6 | 74.9 | 74.9 | 75.0 | 75.0 | 75.0 | 75.0 | 72.1 | 72.1 | 72.2 | 72.2 | 72.3 | 72.3 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-8 — Gross Cooling Capacities (kW) - Single Compressor - TTA100C Condensing Unit with TWE100A Air Handler (SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 5139 | 24 | 18.7 | 18.3 | 20.4 | 13.5 | 22.3 | 8.7 | 18.0 | 18.0 | 19.7 | 13.2 | 21.5 | 8.4 | 17.3 | 17.3 | 18.9 | 12.8 | 20.6 | 8.1 | 16.7 | 16.7 | 18.1 | 12.5 | 19.7 | 7.8 |
| | 27 | 19.7 | 19.7 | 20.5 | 17.4 | 22.5 | 12.6 | 19.1 | 19.1 | 19.8 | 17.1 | 21.7 | 12.2 | 18.5 | 18.5 | 19.0 | 16.8 | 20.8 | 11.9 | 17.8 | 17.8 | 18.2 | 16.5 | 19.9 | 11.9 |
| | 29 | 20.9 | 20.9 | 20.9 | 20.9 | 22.6 | 16.5 | 20.2 | 20.2 | 20.3 | 20.3 | 21.8 | 16.2 | 19.6 | 19.6 | 19.6 | 19.6 | 20.9 | 15.9 | 18.9 | 18.9 | 18.9 | 18.9 | 20.0 | 15.6 |
| | 32 | 22.0 | 22.0 | 22.1 | 22.1 | 22.7 | 20.5 | 21.4 | 21.4 | 21.4 | 21.4 | 21.9 | 20.2 | 20.7 | 20.7 | 20.7 | 20.7 | 21.1 | 19.9 | 20.0 | 20.0 | 20.0 | 20.0 | 20.2 | 19.6 |
| 5692 | 24 | 19.0 | 19.0 | 20.7 | 14.2 | 22.5 | 8.7 | 18.4 | 18.4 | 19.9 | 13.7 | 21.7 | 8.4 | 17.7 | 17.7 | 19.1 | 13.4 | 20.7 | 8.1 | 17.0 | 17.0 | 18.3 | 13.0 | 19.8 | 7.8 |
| | 27 | 20.2 | 20.2 | 20.8 | 18.3 | 22.7 | 13.2 | 19.5 | 19.5 | 20.0 | 18.0 | 21.9 | 12.9 | 18.9 | 18.9 | 19.3 | 17.7 | 21.1 | 12.6 | 18.2 | 18.2 | 18.4 | 17.4 | 20.1 | 12.3 |
| | 29 | 21.3 | 21.3 | 21.4 | 21.4 | 22.8 | 17.3 | 20.7 | 20.7 | 20.7 | 20.7 | 22.0 | 17.0 | 20.0 | 20.0 | 20.0 | 20.0 | 21.1 | 16.7 | 19.3 | 19.3 | 19.3 | 19.3 | 20.2 | 16.4 |
| | 32 | 22.6 | 22.6 | 22.6 | 22.6 | 23.0 | 21.7 | 21.9 | 21.9 | 21.9 | 21.9 | 22.2 | 21.4 | 21.2 | 21.2 | 21.2 | 21.2 | 21.4 | 21.1 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 | 20.4 |
| 6244 | 24 | 19.3 | 19.3 | 20.8 | 14.5 | 22.7 | 8.8 | 18.7 | 18.7 | 20.1 | 14.2 | 21.8 | 8.6 | 18.0 | 18.0 | 19.3 | 13.9 | 20.8 | 8.3 | 17.3 | 17.3 | 18.4 | 13.5 | 19.8 | 8.0 |
| | 27 | 20.5 | 20.5 | 21.0 | 19.2 | 22.9 | 13.7 | 19.9 | 19.9 | 20.2 | 18.9 | 22.1 | 13.4 | 19.2 | 19.2 | 19.5 | 18.6 | 21.2 | 13.1 | 18.5 | 18.5 | 18.6 | 18.3 | 20.3 | 12.8 |
| | 29 | 21.8 | 21.8 | 21.8 | 21.8 | 23.0 | 18.1 | 21.1 | 21.1 | 21.1 | 21.1 | 22.2 | 17.8 | 20.4 | 20.4 | 20.4 | 20.4 | 21.3 | 17.5 | 19.6 | 19.6 | 19.7 | 19.7 | 20.4 | 17.2 |
| | 32 | 23.0 | 23.0 | 23.0 | 23.0 | 23.2 | 22.8 | 22.3 | 22.3 | 22.3 | 22.4 | 22.4 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 21.6 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 | 20.8 |
| 6796 | 24 | 19.7 | 19.7 | 21.0 | 15.1 | 22.8 | 9.0 | 19.0 | 19.0 | 20.2 | 14.7 | 21.9 | 8.7 | 18.3 | 18.3 | 19.4 | 14.4 | 20.9 | 8.4 | 17.6 | 17.6 | 18.5 | 14.0 | 19.9 | 8.1 |
| | 27 | 20.9 | 20.9 | 21.2 | 20.1 | 23.1 | 14.2 | 20.2 | 20.2 | 20.4 | 19.8 | 22.2 | 13.9 | 19.5 | 19.5 | 19.7 | 19.5 | 21.3 | 13.6 | 18.8 | 18.8 | 18.8 | 18.8 | 20.4 | 13.3 |
| | 29 | 22.1 | 22.1 | 22.2 | 22.2 | 23.2 | 18.9 | 21.5 | 21.5 | 21.5 | 21.5 | 22.3 | 18.6 | 20.7 | 20.7 | 20.7 | 20.7 | 21.5 | 18.3 | 19.9 | 19.9 | 20.0 | 20.0 | 20.5 | 17.9 |
| | 32 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 23.4 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 22.7 | 21.9 | 21.9 | 22.0 | 22.0 | 22.0 | 22.0 | 21.1 | 21.1 | 21.1 | 21.1 | 21.2 | 21.2 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data System

Table PD-9 — Gross Cooling Capacities (MBh) TTA125B Condensing Unit with TWE100B Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3025 | 75 | 109.9 | 81.1 | 121.9 | 71.0 | 135.2 | 49.8 | 106.3 | 79.2 | 117.8 | 69.3 | 130.6 | 48.0 | 102.0 | 76.9 | 113.3 | 67.5 | 125.5 | 46.3 | 97.6 | 74.6 | 108.5 | 65.5 | 120.2 | 44.3 |
| | 80 | 110.2 | 92.5 | 122.2 | 78.4 | 135.2 | 63.2 | 106.5 | 90.6 | 118.1 | 76.5 | 130.6 | 61.3 | 102.5 | 88.4 | 113.7 | 74.5 | 125.6 | 59.3 | 98.1 | 86.1 | 108.9 | 72.3 | 120.2 | 57.1 |
| | 85 | 110.6 | 104.2 | 122.5 | 90.4 | 135.4 | 75.2 | 107.1 | 102.3 | 118.2 | 88.3 | 130.8 | 73.3 | 103.3 | 100.2 | 113.8 | 86.1 | 125.9 | 71.3 | 99.2 | 98.0 | 109.1 | 83.8 | 120.6 | 69.2 |
| | 90 | 113.5 | 113.5 | 122.7 | 101.8 | 135.7 | 87.3 | 110.5 | 110.5 | 118.6 | 99.8 | 131.1 | 85.4 | 107.3 | 107.3 | 114.2 | 97.7 | 126.2 | 83.3 | 103.6 | 103.6 | 109.5 | 95.4 | 120.9 | 81.2 |
| 3350 | 75 | 112.6 | 84.5 | 124.7 | 68.5 | 138.0 | 50.8 | 108.5 | 82.3 | 120.4 | 66.6 | 133.2 | 49.1 | 104.3 | 80.0 | 115.7 | 64.5 | 127.9 | 47.2 | 99.8 | 77.7 | 110.7 | 62.3 | 122.3 | 45.3 |
| | 80 | 112.8 | 96.8 | 125.0 | 81.5 | 138.0 | 65.0 | 109.0 | 94.7 | 120.7 | 79.6 | 133.2 | 63.0 | 104.8 | 92.5 | 116.1 | 77.5 | 128.0 | 61.0 | 100.3 | 90.1 | 111.1 | 75.3 | 122.4 | 58.8 |
| | 85 | 113.6 | 109.5 | 125.1 | 94.2 | 138.3 | 78.0 | 110.0 | 107.6 | 120.8 | 92.1 | 133.5 | 76.1 | 106.1 | 105.5 | 116.3 | 90.0 | 128.3 | 74.1 | 101.8 | 101.8 | 111.4 | 87.6 | 122.8 | 71.9 |
| | 90 | 117.6 | 117.6 | 125.5 | 106.7 | 138.6 | 91.1 | 114.5 | 114.5 | 121.3 | 104.6 | 133.8 | 89.1 | 111.0 | 111.0 | 116.7 | 102.5 | 128.7 | 87.1 | 107.2 | 107.2 | 111.8 | 100.1 | 123.2 | 84.9 |
| 3675 | 75 | 114.6 | 87.3 | 127.0 | 70.4 | 140.3 | 51.8 | 110.7 | 85.3 | 122.5 | 68.5 | 135.3 | 50.0 | 106.4 | 83.0 | 117.7 | 66.4 | 129.9 | 48.2 | 101.6 | 80.6 | 112.5 | 64.1 | 124.1 | 46.2 |
| | 80 | 115.1 | 100.8 | 127.3 | 84.5 | 140.3 | 66.6 | 111.2 | 98.7 | 122.9 | 82.5 | 135.4 | 64.7 | 106.9 | 96.4 | 118.1 | 80.4 | 130.0 | 62.6 | 102.1 | 94.0 | 113.0 | 78.1 | 124.3 | 60.4 |
| | 85 | 116.3 | 114.6 | 127.5 | 97.9 | 140.6 | 80.7 | 112.2 | 112.2 | 123.1 | 95.8 | 135.7 | 78.7 | 108.7 | 108.7 | 118.4 | 93.6 | 130.4 | 76.6 | 104.8 | 104.8 | 113.3 | 91.2 | 124.7 | 74.5 |
| | 90 | 121.3 | 121.3 | 127.9 | 111.3 | 141.0 | 94.7 | 117.9 | 117.9 | 123.5 | 109.2 | 136.1 | 92.7 | 114.3 | 114.3 | 118.8 | 107.0 | 130.5 | 90.3 | 110.4 | 110.4 | 113.8 | 104.7 | 124.9 | 87.9 |
| 4000 | 75 | 116.6 | 90.2 | 129.0 | 72.3 | 142.3 | 52.7 | 112.5 | 88.1 | 124.4 | 70.3 | 137.1 | 51.0 | 108.1 | 85.8 | 119.4 | 68.1 | 131.5 | 49.1 | 103.2 | 83.3 | 114.1 | 65.9 | 125.6 | 46.9 |
| | 80 | 117.1 | 104.5 | 129.4 | 87.2 | 142.3 | 68.2 | 113.0 | 102.4 | 124.8 | 85.2 | 137.3 | 66.2 | 108.6 | 100.2 | 119.6 | 82.7 | 131.8 | 64.1 | 103.9 | 97.7 | 114.4 | 80.3 | 125.9 | 61.9 |
| | 85 | 118.5 | 118.5 | 129.6 | 101.4 | 142.7 | 83.2 | 115.1 | 115.1 | 125.1 | 99.3 | 137.7 | 81.2 | 111.5 | 111.5 | 120.2 | 97.0 | 132.2 | 79.1 | 107.5 | 107.5 | 114.9 | 94.6 | 126.4 | 76.9 |
| | 90 | 124.5 | 124.5 | 130.0 | 115.8 | 143.1 | 98.1 | 121.1 | 121.1 | 125.5 | 113.7 | 137.8 | 95.7 | 117.3 | 117.3 | 120.7 | 111.4 | 132.4 | 93.5 | 113.2 | 113.2 | 115.6 | 109.1 | 126.6 | 91.1 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-9 — Gross Cooling Capacities (kW) TTA125B Condensing Unit with TWE100B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 5139 | 24 | 32.2 | 23.7 | 35.7 | 20.8 | 39.6 | 14.6 | 31.1 | 23.2 | 34.5 | 20.3 | 38.2 | 14.1 | 29.9 | 22.5 | 33.2 | 19.8 | 36.8 | 13.6 | 28.6 | 21.8 | 31.8 | 19.2 | 35.2 | 13.0 |
| | 27 | 32.3 | 27.1 | 35.8 | 23.0 | 39.6 | 18.5 | 31.2 | 26.5 | 34.6 | 22.4 | 38.2 | 17.9 | 30.0 | 25.9 | 33.3 | 21.8 | 36.8 | 17.4 | 28.7 | 25.2 | 31.9 | 21.2 | 35.2 | 16.7 |
| | 29 | 32.4 | 30.5 | 35.9 | 26.5 | 39.6 | 22.0 | 31.4 | 29.9 | 34.6 | 25.8 | 38.3 | 21.5 | 30.2 | 29.3 | 33.3 | 25.2 | 36.9 | 20.9 | 29.0 | 28.7 | 31.9 | 24.6 | 35.3 | 20.3 |
| | 32 | 33.2 | 33.2 | 35.9 | 29.8 | 39.7 | 25.5 | 32.4 | 32.4 | 34.7 | 29.2 | 38.4 | 25.0 | 31.4 | 31.4 | 33.5 | 28.6 | 36.9 | 24.4 | 30.3 | 30.3 | 32.1 | 27.9 | 35.4 | 23.8 |
| 5692 | 24 | 33.0 | 24.7 | 36.5 | 20.1 | 40.4 | 14.9 | 31.8 | 24.1 | 35.2 | 19.5 | 39.0 | 14.4 | 30.5 | 23.4 | 33.9 | 18.9 | 37.5 | 13.8 | 29.2 | 22.7 | 32.4 | 18.2 | 35.8 | 13.3 |
| | 27 | 33.0 | 28.3 | 36.6 | 23.9 | 40.4 | 19.0 | 31.9 | 27.7 | 35.3 | 23.3 | 39.0 | 18.5 | 30.7 | 27.1 | 34.0 | 22.7 | 37.5 | 17.9 | 29.4 | 26.4 | 32.5 | 22.1 | 35.9 | 17.2 |
| | 29 | 33.3 | 32.1 | 36.6 | 27.6 | 40.5 | 22.8 | 32.2 | 31.5 | 35.4 | 27.0 | 39.1 | 22.3 | 31.1 | 30.9 | 34.0 | 26.3 | 37.6 | 21.7 | 29.8 | 29.8 | 32.6 | 25.7 | 36.0 | 21.1 |
| | 32 | 34.4 | 34.4 | 36.8 | 31.2 | 40.6 | 26.7 | 33.5 | 33.5 | 35.5 | 30.6 | 39.2 | 26.1 | 32.5 | 32.5 | 34.2 | 30.0 | 37.7 | 25.5 | 31.4 | 31.4 | 32.7 | 29.3 | 36.1 | 24.9 |
| 6244 | 24 | 33.6 | 25.6 | 37.2 | 20.6 | 41.1 | 15.2 | 32.4 | 25.0 | 35.9 | 20.0 | 39.6 | 14.7 | 31.1 | 24.3 | 34.5 | 19.4 | 38.0 | 14.1 | 29.8 | 23.6 | 32.9 | 18.8 | 36.3 | 13.5 |
| | 27 | 33.7 | 29.5 | 37.3 | 24.7 | 41.1 | 19.5 | 32.5 | 28.9 | 36.0 | 24.1 | 39.6 | 18.9 | 31.3 | 28.2 | 34.6 | 23.5 | 38.1 | 18.3 | 29.9 | 27.5 | 33.1 | 22.9 | 36.4 | 17.7 |
| | 29 | 34.0 | 33.6 | 37.3 | 28.7 | 41.2 | 23.6 | 32.8 | 32.8 | 36.0 | 28.0 | 39.7 | 23.0 | 31.8 | 31.8 | 34.7 | 27.4 | 38.2 | 22.4 | 30.7 | 30.7 | 33.2 | 26.7 | 36.5 | 21.8 |
| | 32 | 35.5 | 35.5 | 37.5 | 32.6 | 41.3 | 27.7 | 34.5 | 34.5 | 36.2 | 32.0 | 39.8 | 27.1 | 33.5 | 33.5 | 34.8 | 31.3 | 38.2 | 26.4 | 32.3 | 32.3 | 33.3 | 30.7 | 36.6 | 25.7 |
| 6796 | 24 | 34.1 | 26.4 | 37.8 | 21.2 | 41.7 | 15.4 | 32.9 | 25.8 | 36.4 | 20.6 | 40.2 | 14.9 | 31.7 | 25.1 | 35.0 | 19.9 | 38.5 | 14.4 | 30.2 | 24.4 | 33.4 | 19.3 | 36.8 | 13.7 |
| | 27 | 34.3 | 30.6 | 37.9 | 25.5 | 41.7 | 20.0 | 33.1 | 30.0 | 36.5 | 25.0 | 40.2 | 19.4 | 31.8 | 29.3 | 35.0 | 24.2 | 38.6 | 18.8 | 30.4 | 28.6 | 33.5 | 23.5 | 36.9 | 18.1 |
| | 29 | 34.7 | 34.7 | 38.0 | 29.7 | 41.8 | 24.3 | 33.7 | 33.7 | 36.6 | 29.1 | 40.3 | 23.8 | 32.6 | 32.6 | 35.2 | 28.4 | 38.7 | 23.2 | 31.5 | 31.5 | 33.7 | 27.7 | 37.0 | 22.5 |
| | 32 | 36.5 | 36.5 | 38.1 | 33.9 | 41.9 | 28.7 | 35.4 | 35.4 | 36.7 | 33.3 | 40.3 | 28.0 | 34.3 | 34.3 | 35.3 | 32.6 | 38.8 | 27.4 | 33.1 | 33.1 | 33.9 | 31.9 | 37.1 | 26.7 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data

System

Table PD-10 — Gross Cooling Capacities (MBh) TTA125B Condensing Unit with TWE155B Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------------------------------|--------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb (°F) | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | |
| | | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 |
| Airflow | | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 3750 | 75 | 124.0 | 98.6 | 136.6 | 82.4 | 149.8 | 55.6 | 119.5 | 96.3 | 131.6 | 80.4 | 144.1 | 53.6 | 114.6 | 93.8 | 126.1 | 78.2 | 137.9 | 51.5 | 109.3 | 91.2 | 120.3 | 75.9 | 131.3 | 49.3 |
| | 80 | 124.7 | 115.3 | 136.9 | 94.8 | 150.4 | 73.4 | 120.2 | 113.0 | 131.9 | 92.5 | 144.8 | 71.3 | 115.5 | 110.6 | 126.5 | 90.1 | 138.9 | 69.1 | 110.5 | 108.1 | 120.8 | 87.5 | 132.5 | 66.8 |
| | 85 | 128.0 | 128.0 | 137.5 | 111.4 | 151.0 | 90.7 | 124.2 | 124.2 | 132.5 | 109.1 | 145.4 | 88.7 | 120.1 | 120.1 | 127.1 | 106.7 | 139.5 | 86.5 | 115.6 | 115.6 | 121.4 | 104.1 | 132.8 | 83.5 |
| | 90 | 134.5 | 134.5 | 138.2 | 128.2 | 151.2 | 107.1 | 130.6 | 130.6 | 133.3 | 125.9 | 145.7 | 104.9 | 126.3 | 126.3 | 128.2 | 123.6 | 139.9 | 102.5 | 121.7 | 121.7 | 122.8 | 121.1 | 133.6 | 100.0 |
| 4200 | 75 | 126.6 | 103.5 | 139.2 | 81.3 | 152.2 | 56.6 | 121.9 | 101.2 | 134.0 | 79.1 | 146.3 | 54.6 | 116.9 | 98.7 | 128.4 | 76.8 | 140.0 | 52.4 | 111.4 | 96.0 | 121.9 | 73.8 | 133.2 | 50.2 |
| | 80 | 127.6 | 122.0 | 139.6 | 99.3 | 153.0 | 76.1 | 123.1 | 119.7 | 134.4 | 97.0 | 147.3 | 74.0 | 118.3 | 117.3 | 128.8 | 94.5 | 141.2 | 71.8 | 113.1 | 113.1 | 122.9 | 91.8 | 134.6 | 69.4 |
| | 85 | 132.5 | 132.5 | 140.2 | 117.6 | 153.7 | 95.2 | 128.5 | 128.5 | 135.0 | 115.3 | 147.6 | 92.4 | 124.1 | 124.1 | 129.5 | 112.8 | 141.5 | 90.0 | 119.4 | 119.4 | 123.6 | 110.2 | 135.0 | 87.4 |
| | 90 | 139.3 | 139.3 | 141.3 | 136.2 | 154.0 | 112.9 | 135.1 | 135.1 | 136.4 | 133.9 | 148.3 | 110.6 | 130.6 | 130.6 | 130.7 | 130.7 | 142.2 | 108.2 | 125.8 | 125.8 | 125.9 | 125.9 | 135.8 | 105.6 |
| 4650 | 75 | 128.8 | 108.2 | 141.4 | 84.2 | 154.2 | 57.7 | 123.9 | 105.8 | 136.0 | 82.1 | 148.1 | 55.6 | 118.7 | 103.3 | 129.7 | 79.0 | 141.6 | 53.4 | 113.1 | 100.5 | 123.6 | 76.3 | 134.6 | 51.0 |
| | 80 | 130.2 | 128.5 | 141.8 | 103.6 | 155.2 | 78.7 | 125.3 | 125.3 | 136.5 | 101.2 | 149.3 | 76.5 | 120.9 | 120.9 | 130.8 | 98.7 | 143.0 | 74.3 | 116.1 | 116.1 | 124.7 | 96.0 | 136.2 | 71.9 |
| | 85 | 136.4 | 136.4 | 142.4 | 123.5 | 155.6 | 98.5 | 132.2 | 132.2 | 137.2 | 121.2 | 149.7 | 96.2 | 127.5 | 127.5 | 131.5 | 118.6 | 143.5 | 93.7 | 122.6 | 122.6 | 125.6 | 116.0 | 136.9 | 91.1 |
| | 90 | 143.4 | 143.4 | 144.2 | 144.0 | 156.3 | 118.4 | 139.0 | 139.0 | 139.2 | 139.2 | 150.4 | 116.1 | 134.3 | 134.3 | 134.4 | 134.4 | 144.2 | 113.6 | 129.2 | 129.2 | 129.3 | 129.3 | 137.6 | 111.0 |
| 5100 | 75 | 130.6 | 112.7 | 142.7 | 86.5 | 155.8 | 58.6 | 125.6 | 110.3 | 137.3 | 84.1 | 149.6 | 56.4 | 120.3 | 107.7 | 131.3 | 81.4 | 142.9 | 54.1 | 114.7 | 104.9 | 125.1 | 78.6 | 135.8 | 51.7 |
| | 80 | 132.5 | 132.5 | 143.7 | 107.7 | 157.0 | 81.1 | 128.3 | 128.3 | 138.3 | 105.3 | 151.0 | 79.0 | 123.7 | 123.7 | 132.4 | 102.7 | 144.5 | 76.7 | 118.8 | 118.8 | 126.2 | 100.0 | 137.6 | 74.4 |
| | 85 | 139.7 | 139.7 | 144.4 | 129.2 | 157.5 | 102.2 | 135.4 | 135.4 | 139.1 | 126.9 | 151.5 | 99.9 | 130.6 | 130.6 | 133.3 | 124.3 | 145.2 | 97.3 | 125.5 | 125.5 | 127.3 | 121.7 | 138.4 | 94.7 |
| | 90 | 147.0 | 147.0 | 147.2 | 147.2 | 158.2 | 123.7 | 142.5 | 142.5 | 142.6 | 142.6 | 152.2 | 121.3 | 137.6 | 137.6 | 137.7 | 137.7 | 145.9 | 118.8 | 132.3 | 132.3 | 132.4 | 132.4 | 139.1 | 116.2 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-10 — Gross Cooling Capacities (kW) TTA125B Condensing Unit with TWE155B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------------------------------|--------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb (°C) | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | |
| | | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 |
| Airflow | | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 6371 | 24 | 36.3 | 28.9 | 40.0 | 24.1 | 43.9 | 16.3 | 35.0 | 28.2 | 38.5 | 23.5 | 42.2 | 15.7 | 33.6 | 27.5 | 36.9 | 22.9 | 40.4 | 15.1 | 32.0 | 26.7 | 35.2 | 22.2 | 38.5 | 14.4 |
| | 27 | 36.5 | 33.8 | 40.1 | 27.8 | 44.0 | 21.5 | 35.2 | 33.1 | 38.6 | 27.1 | 42.4 | 20.9 | 33.8 | 32.4 | 37.0 | 26.4 | 40.7 | 20.2 | 32.4 | 31.6 | 35.4 | 25.6 | 38.8 | 19.6 |
| | 29 | 37.5 | 37.5 | 40.3 | 32.6 | 44.2 | 26.6 | 36.4 | 36.4 | 38.8 | 32.0 | 42.6 | 26.0 | 35.2 | 35.2 | 37.2 | 31.2 | 40.9 | 25.3 | 33.8 | 33.8 | 35.5 | 30.5 | 38.9 | 24.4 |
| | 32 | 39.4 | 39.4 | 40.5 | 37.5 | 44.3 | 31.4 | 38.2 | 38.2 | 39.0 | 36.9 | 42.7 | 30.7 | 37.0 | 37.0 | 37.5 | 36.2 | 40.9 | 30.0 | 35.6 | 35.6 | 35.9 | 35.5 | 39.1 | 29.3 |
| 7136 | 24 | 37.1 | 30.3 | 40.8 | 23.8 | 44.6 | 16.6 | 35.7 | 29.6 | 39.2 | 23.2 | 42.8 | 16.0 | 34.2 | 28.9 | 37.6 | 22.5 | 41.0 | 15.4 | 32.6 | 28.1 | 35.7 | 21.6 | 39.0 | 14.7 |
| | 27 | 37.4 | 35.7 | 40.9 | 29.1 | 44.8 | 22.3 | 36.0 | 35.1 | 39.4 | 28.4 | 43.1 | 21.7 | 34.6 | 34.3 | 37.7 | 27.7 | 41.3 | 21.0 | 33.1 | 33.1 | 36.0 | 26.9 | 39.4 | 20.3 |
| | 29 | 38.8 | 38.8 | 41.0 | 34.4 | 45.0 | 27.9 | 37.6 | 37.6 | 39.5 | 33.7 | 43.2 | 27.1 | 36.3 | 36.3 | 37.9 | 33.0 | 41.4 | 26.3 | 35.0 | 35.0 | 36.2 | 32.3 | 39.5 | 25.6 |
| | 32 | 40.8 | 40.8 | 41.4 | 39.9 | 45.1 | 33.1 | 39.6 | 39.6 | 39.9 | 39.2 | 43.4 | 32.4 | 38.2 | 38.2 | 38.3 | 38.3 | 41.7 | 31.7 | 36.8 | 36.8 | 36.9 | 36.9 | 39.8 | 30.9 |
| 7900 | 24 | 37.7 | 31.7 | 41.4 | 24.7 | 45.1 | 16.9 | 36.3 | 31.0 | 39.8 | 24.0 | 43.4 | 16.3 | 34.8 | 30.2 | 38.0 | 23.1 | 41.5 | 15.6 | 33.1 | 29.4 | 36.2 | 22.3 | 39.4 | 14.9 |
| | 27 | 38.1 | 37.6 | 41.5 | 30.3 | 45.4 | 23.0 | 36.7 | 36.7 | 40.0 | 29.6 | 43.7 | 22.4 | 35.4 | 35.4 | 38.3 | 28.9 | 41.9 | 21.8 | 34.0 | 34.0 | 36.5 | 28.1 | 39.9 | 21.1 |
| | 29 | 39.9 | 39.9 | 41.7 | 36.2 | 45.6 | 28.9 | 38.7 | 38.7 | 40.2 | 35.5 | 43.8 | 28.2 | 37.3 | 37.3 | 38.5 | 34.7 | 42.0 | 27.4 | 35.9 | 35.9 | 36.8 | 34.0 | 40.1 | 26.7 |
| | 32 | 42.0 | 42.0 | 42.2 | 42.2 | 45.8 | 34.7 | 40.7 | 40.7 | 40.7 | 40.7 | 44.1 | 34.0 | 39.3 | 39.3 | 39.4 | 39.4 | 42.2 | 33.3 | 37.8 | 37.8 | 37.9 | 37.9 | 40.3 | 32.5 |
| 8665 | 24 | 38.2 | 33.0 | 41.8 | 25.3 | 45.6 | 17.2 | 36.8 | 32.3 | 40.2 | 24.6 | 43.8 | 16.5 | 35.2 | 31.5 | 38.5 | 23.8 | 41.8 | 15.8 | 33.6 | 30.7 | 36.6 | 23.0 | 39.8 | 15.1 |
| | 27 | 38.8 | 38.8 | 42.1 | 31.5 | 46.0 | 23.8 | 37.6 | 37.6 | 40.5 | 30.8 | 44.2 | 23.1 | 36.2 | 36.2 | 38.8 | 30.1 | 42.3 | 22.5 | 34.8 | 34.8 | 37.0 | 29.3 | 40.3 | 21.8 |
| | 29 | 40.9 | 40.9 | 42.3 | 37.8 | 46.1 | 29.9 | 39.6 | 39.6 | 40.7 | 37.1 | 44.4 | 29.2 | 38.2 | 38.2 | 39.0 | 36.4 | 42.5 | 28.5 | 36.7 | 36.7 | 37.3 | 35.6 | 40.5 | 27.7 |
| | 32 | 43.0 | 43.0 | 43.1 | 43.1 | 46.3 | 36.2 | 41.7 | 41.7 | 41.8 | 41.8 | 44.6 | 35.5 | 40.3 | 40.3 | 40.3 | 40.3 | 42.7 | 34.8 | 38.7 | 38.7 | 38.8 | 38.8 | 40.7 | 34.0 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity



Performance Data System

Table PD-11 — Gross Cooling Capacities (MBh) TTA155B Condensing Unit with TWE155B Air Handler

(I-P)

| CFM | | Enter. Dry Bulb | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| | | | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | |
| 4500 | 75 | 153.4 | 120.3 | 169.3 | 101.1 | 185.9 | 68.9 | 148.2 | 117.6 | 163.3 | 98.6 | 178.9 | 66.4 | 142.0 | 114.4 | 156.3 | 95.8 | 170.9 | 63.7 | 134.9 | 110.8 | 148.4 | 92.6 | 162.0 | 60.6 | |
| | 80 | 154.3 | 140.1 | 169.6 | 116.0 | 186.6 | 90.3 | 149.1 | 137.4 | 163.7 | 113.2 | 179.8 | 87.7 | 143.0 | 134.3 | 156.7 | 110.0 | 172.0 | 84.8 | 136.2 | 130.8 | 149.0 | 106.4 | 163.5 | 81.7 | |
| | 85 | 157.3 | 157.3 | 170.5 | 135.7 | 187.4 | 111.0 | 152.9 | 152.9 | 164.5 | 132.9 | 180.6 | 108.4 | 147.7 | 147.7 | 157.6 | 129.7 | 172.9 | 105.5 | 141.7 | 141.7 | 149.9 | 126.2 | 163.9 | 101.7 | |
| | 90 | 165.4 | 165.4 | 171.3 | 155.6 | 187.6 | 130.6 | 160.8 | 160.8 | 165.5 | 152.8 | 180.9 | 127.9 | 155.3 | 155.3 | 158.8 | 149.7 | 173.3 | 124.7 | 149.2 | 149.2 | 151.4 | 146.3 | 165.0 | 121.3 | |
| 5000 | 75 | 156.6 | 125.7 | 172.5 | 99.4 | 188.8 | 70.0 | 151.1 | 122.9 | 166.2 | 96.8 | 181.5 | 67.5 | 144.6 | 119.7 | 158.9 | 93.8 | 173.3 | 64.7 | 137.3 | 116.0 | 150.8 | 90.5 | 164.2 | 61.6 | |
| | 80 | 157.7 | 147.5 | 172.9 | 120.9 | 189.8 | 93.3 | 152.4 | 144.8 | 166.7 | 118.1 | 182.7 | 90.7 | 146.1 | 141.6 | 159.5 | 114.8 | 174.7 | 87.7 | 139.2 | 138.0 | 151.6 | 111.2 | 166.0 | 84.6 | |
| | 85 | 162.6 | 162.6 | 173.8 | 142.5 | 190.6 | 115.9 | 157.9 | 157.9 | 167.6 | 139.6 | 183.6 | 113.3 | 152.4 | 152.4 | 160.4 | 136.4 | 175.2 | 109.4 | 146.1 | 146.1 | 152.5 | 132.8 | 166.5 | 105.9 | |
| | 90 | 171.0 | 171.0 | 175.0 | 164.3 | 191.1 | 137.0 | 166.1 | 166.1 | 169.0 | 161.6 | 184.1 | 134.1 | 160.3 | 160.3 | 162.2 | 158.4 | 176.2 | 130.9 | 153.9 | 153.9 | 154.0 | 154.0 | 167.6 | 127.4 | |
| 5500 | 75 | 159.3 | 130.9 | 175.1 | 102.7 | 191.1 | 71.3 | 153.6 | 128.1 | 168.6 | 100.0 | 183.6 | 68.7 | 146.9 | 124.7 | 161.1 | 97.0 | 175.2 | 65.9 | 139.4 | 120.9 | 152.2 | 92.7 | 165.9 | 62.6 | |
| | 80 | 160.8 | 154.6 | 175.7 | 125.6 | 192.4 | 96.1 | 155.3 | 151.8 | 169.2 | 122.7 | 185.1 | 93.5 | 149.0 | 148.6 | 161.9 | 119.4 | 176.9 | 90.5 | 141.9 | 141.9 | 153.7 | 115.7 | 167.9 | 87.3 | |
| | 85 | 167.2 | 167.2 | 176.5 | 148.9 | 192.8 | 119.7 | 162.3 | 162.3 | 170.1 | 146.0 | 185.6 | 116.8 | 156.5 | 156.5 | 162.8 | 142.7 | 177.5 | 113.6 | 149.9 | 149.9 | 154.7 | 139.1 | 168.7 | 110.0 | |
| | 90 | 175.9 | 175.9 | 178.3 | 172.8 | 194.0 | 143.0 | 170.7 | 170.7 | 172.2 | 170.0 | 186.7 | 140.1 | 164.7 | 164.7 | 164.8 | 164.8 | 178.6 | 136.8 | 157.9 | 157.9 | 158.1 | 158.1 | 169.8 | 133.3 | |
| 6000 | 75 | 161.5 | 135.9 | 177.3 | 105.9 | 193.1 | 72.5 | 155.6 | 132.9 | 170.6 | 103.2 | 185.5 | 69.7 | 148.8 | 129.5 | 162.4 | 99.0 | 176.8 | 66.7 | 141.2 | 125.7 | 154.0 | 95.3 | 167.3 | 63.5 | |
| | 80 | 163.6 | 161.5 | 178.0 | 130.1 | 194.7 | 98.8 | 157.4 | 157.4 | 171.4 | 127.2 | 187.2 | 96.1 | 151.6 | 151.6 | 163.8 | 123.8 | 178.8 | 93.2 | 145.0 | 145.0 | 155.5 | 120.0 | 169.6 | 90.0 | |
| | 85 | 171.3 | 171.3 | 178.9 | 155.2 | 195.3 | 123.8 | 166.1 | 166.1 | 172.4 | 152.3 | 187.8 | 120.8 | 160.0 | 160.0 | 164.9 | 148.9 | 179.6 | 117.5 | 153.2 | 153.2 | 156.8 | 145.3 | 170.6 | 113.9 | |
| | 90 | 180.2 | 180.2 | 181.4 | 181.0 | 196.5 | 148.8 | 174.7 | 174.7 | 174.9 | 174.9 | 188.8 | 145.8 | 168.5 | 168.5 | 168.6 | 168.6 | 180.7 | 142.5 | 161.5 | 161.5 | 161.6 | 161.6 | 171.7 | 139.0 | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-11 — Gross Cooling Capacities (kW) TTA155B Condensing Unit with TWE155B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|--|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| | | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| m³/h | Enter. Dry Bulb | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | | | | | | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | | | | | | |
| 7646 | 24 | 44.9 | 35.2 | 49.6 | 29.6 | 54.4 | 20.2 | 43.4 | 34.4 | 47.8 | 28.9 | 52.4 | 19.4 | 41.6 | 33.5 | 45.8 | 28.0 | 50.0 | 18.6 | | | | | | |
| | 27 | 45.2 | 41.0 | 49.7 | 34.0 | 54.6 | 26.4 | 43.7 | 40.2 | 47.9 | 33.1 | 52.6 | 25.7 | 41.9 | 39.3 | 45.9 | 32.2 | 50.4 | 24.8 | | | | | | |
| | 29 | 46.1 | 46.1 | 49.9 | 39.7 | 54.9 | 32.5 | 44.8 | 44.8 | 48.2 | 38.9 | 52.9 | 31.7 | 43.2 | 43.2 | 46.2 | 38.0 | 50.6 | 30.9 | | | | | | |
| | 32 | 48.4 | 48.4 | 50.2 | 45.6 | 54.9 | 38.3 | 47.1 | 47.1 | 48.5 | 44.8 | 53.0 | 37.4 | 45.5 | 45.5 | 46.5 | 43.8 | 50.8 | 36.5 | | | | | | |
| 8495 | 24 | 45.8 | 36.8 | 50.5 | 29.1 | 55.3 | 20.5 | 44.2 | 36.0 | 48.7 | 28.3 | 53.1 | 19.8 | 42.4 | 35.0 | 46.5 | 27.5 | 50.7 | 18.9 | | | | | | |
| | 27 | 46.2 | 43.2 | 50.6 | 35.4 | 55.6 | 27.3 | 44.6 | 42.4 | 48.8 | 34.6 | 53.5 | 26.5 | 42.8 | 41.5 | 46.7 | 33.6 | 51.2 | 25.7 | | | | | | |
| | 29 | 47.6 | 47.6 | 50.9 | 41.7 | 55.8 | 33.9 | 46.2 | 46.2 | 49.1 | 40.9 | 53.8 | 33.2 | 44.6 | 44.6 | 47.0 | 39.9 | 51.3 | 32.0 | | | | | | |
| | 32 | 50.1 | 50.1 | 51.2 | 48.1 | 56.0 | 40.1 | 48.6 | 48.6 | 49.5 | 47.3 | 53.9 | 39.3 | 46.9 | 46.9 | 47.5 | 46.4 | 51.6 | 38.3 | | | | | | |
| 9345 | 24 | 46.6 | 38.3 | 51.3 | 30.1 | 56.0 | 20.9 | 45.0 | 37.5 | 49.4 | 29.3 | 53.8 | 20.1 | 43.0 | 36.5 | 47.2 | 28.4 | 51.3 | 19.3 | | | | | | |
| | 27 | 47.1 | 45.3 | 51.4 | 36.8 | 56.3 | 28.1 | 45.5 | 44.5 | 49.6 | 35.9 | 54.2 | 27.4 | 43.6 | 43.5 | 47.4 | 35.0 | 51.8 | 26.5 | | | | | | |
| | 29 | 49.0 | 49.0 | 51.7 | 43.6 | 56.5 | 35.1 | 47.5 | 47.5 | 49.8 | 42.8 | 54.3 | 34.2 | 45.8 | 45.8 | 47.7 | 41.8 | 52.0 | 33.3 | | | | | | |
| | 32 | 51.5 | 51.5 | 52.2 | 50.6 | 56.8 | 41.9 | 50.0 | 50.0 | 50.4 | 49.8 | 54.7 | 41.0 | 48.2 | 48.2 | 48.3 | 48.3 | 52.3 | 40.1 | | | | | | |
| 10194 | 24 | 47.3 | 39.8 | 51.9 | 31.0 | 56.5 | 21.2 | 45.6 | 38.9 | 50.0 | 30.2 | 54.3 | 20.4 | 43.6 | 37.9 | 47.5 | 29.0 | 51.8 | 19.5 | | | | | | |
| | 27 | 47.9 | 47.3 | 52.1 | 38.1 | 57.0 | 28.9 | 46.1 | 46.1 | 50.2 | 37.2 | 54.8 | 28.2 | 44.4 | 44.4 | 48.0 | 36.2 | 52.3 | 27.3 | | | | | | |
| | 29 | 50.2 | 50.2 | 52.4 | 45.4 | 57.2 | 36.3 | 48.6 | 48.6 | 50.5 | 44.6 | 55.0 | 35.4 | 46.9 | 46.9 | 48.3 | 43.6 | 52.6 | 34.4 | | | | | | |
| | 32 | 52.8 | 52.8 | 53.1 | 53.0 | 57.5 | 43.6 | 51.2 | 51.2 | 51.2 | 51.2 | 55.3 | 42.7 | 49.3 | 49.3 | 49.4 | 49.4 | 52.9 | 41.7 | | | | | | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity



Performance Data System

Table PD-12— Gross Cooling Capacities (MBh) TTA155B Condensing Unit with TWE200B Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------------------------------|--------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|-------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb (°F) | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | | Entering Wet Bulb (°F) | | | | | |
| | | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 | 61 | 67 | 73 | 79 | 85 | 91 |
| Airflow | | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 4500 | 75 | 157.9 | 124.4 | 174.3 | 103.2 | 191.0 | 70.7 | 152.4 | 121.5 | 168.0 | 100.6 | 183.7 | 68.2 | 145.9 | 118.2 | 160.7 | 97.7 | 175.3 | 65.3 | 138.5 | 114.5 | 152.5 | 94.4 | 166.2 | 62.2 |
| | 80 | 158.8 | 145.1 | 174.6 | 119.9 | 192.0 | 93.1 | 153.4 | 142.3 | 168.4 | 117.0 | 184.9 | 90.5 | 147.0 | 139.1 | 161.1 | 113.7 | 176.9 | 87.5 | 139.9 | 135.4 | 153.1 | 110.0 | 168.1 | 84.2 |
| | 85 | 162.4 | 162.4 | 175.4 | 140.4 | 192.8 | 114.7 | 157.7 | 157.7 | 169.2 | 137.6 | 185.8 | 112.0 | 152.2 | 152.2 | 162.0 | 134.3 | 177.8 | 109.1 | 146.0 | 146.0 | 154.0 | 130.6 | 168.5 | 105.0 |
| | 90 | 170.7 | 170.7 | 176.3 | 161.3 | 193.0 | 135.2 | 165.8 | 165.8 | 170.2 | 158.4 | 186.1 | 132.3 | 160.1 | 160.1 | 163.3 | 155.2 | 178.2 | 129.1 | 153.7 | 153.7 | 155.6 | 151.7 | 169.6 | 125.6 |
| 5000 | 75 | 161.2 | 130.3 | 177.6 | 102.7 | 193.9 | 71.9 | 155.4 | 127.3 | 171.0 | 100.0 | 186.4 | 69.3 | 148.7 | 123.9 | 163.4 | 96.9 | 177.8 | 66.4 | 141.0 | 120.1 | 155.0 | 93.5 | 168.4 | 63.2 |
| | 80 | 162.4 | 153.1 | 178.0 | 125.2 | 195.2 | 96.3 | 156.8 | 150.2 | 171.5 | 122.2 | 187.9 | 93.6 | 150.3 | 146.9 | 164.0 | 118.8 | 179.7 | 90.6 | 142.6 | 142.6 | 155.8 | 115.1 | 170.6 | 87.4 |
| | 85 | 167.9 | 167.9 | 178.8 | 147.8 | 196.1 | 119.9 | 163.0 | 163.0 | 172.4 | 144.8 | 188.9 | 117.3 | 157.2 | 157.2 | 164.9 | 141.5 | 180.1 | 113.2 | 150.6 | 150.6 | 156.7 | 137.8 | 171.3 | 109.6 |
| | 90 | 176.6 | 176.6 | 180.2 | 170.7 | 196.5 | 141.9 | 171.4 | 171.4 | 173.9 | 167.9 | 189.3 | 139.0 | 165.4 | 165.4 | 166.9 | 164.6 | 181.2 | 135.8 | 158.7 | 158.7 | 158.9 | 158.9 | 172.4 | 132.2 |
| 5500 | 75 | 164.0 | 135.9 | 180.2 | 106.3 | 196.3 | 73.2 | 158.0 | 132.9 | 173.5 | 103.5 | 188.6 | 70.6 | 151.0 | 129.4 | 165.7 | 100.4 | 179.8 | 67.6 | 143.2 | 125.5 | 156.3 | 95.6 | 170.1 | 64.4 |
| | 80 | 165.6 | 160.8 | 180.8 | 130.2 | 197.9 | 99.4 | 159.9 | 157.9 | 174.1 | 127.2 | 190.4 | 96.7 | 153.0 | 153.0 | 166.5 | 123.8 | 182.0 | 93.6 | 146.3 | 146.3 | 158.0 | 120.0 | 172.7 | 90.4 |
| | 85 | 172.8 | 172.8 | 181.7 | 154.8 | 198.4 | 124.0 | 167.6 | 167.6 | 175.0 | 151.8 | 190.9 | 121.0 | 161.5 | 161.5 | 167.5 | 148.4 | 182.6 | 117.6 | 154.7 | 154.7 | 159.1 | 144.7 | 173.6 | 114.0 |
| | 90 | 181.7 | 181.7 | 183.6 | 179.9 | 199.4 | 148.4 | 176.3 | 176.3 | 177.4 | 177.0 | 192.0 | 145.5 | 170.0 | 170.0 | 170.2 | 170.2 | 183.7 | 142.2 | 163.0 | 163.0 | 163.2 | 163.2 | 174.7 | 138.6 |
| 6000 | 75 | 166.3 | 141.2 | 182.5 | 109.7 | 198.4 | 74.4 | 160.2 | 138.2 | 174.9 | 105.9 | 190.4 | 71.7 | 153.0 | 134.6 | 167.0 | 102.3 | 181.4 | 68.6 | 145.1 | 130.7 | 158.8 | 100.2 | 171.5 | 65.3 |
| | 80 | 168.7 | 168.3 | 183.2 | 135.1 | 200.2 | 102.3 | 162.7 | 162.7 | 176.4 | 132.0 | 192.5 | 99.6 | 156.5 | 156.5 | 168.5 | 128.5 | 183.9 | 96.5 | 149.6 | 149.6 | 159.9 | 124.7 | 174.5 | 93.3 |
| | 85 | 177.1 | 177.1 | 184.2 | 161.6 | 200.8 | 128.4 | 171.6 | 171.6 | 177.4 | 158.6 | 193.2 | 125.3 | 165.3 | 165.3 | 169.7 | 155.1 | 184.8 | 121.9 | 158.2 | 158.2 | 161.3 | 151.4 | 175.5 | 118.2 |
| | 90 | 186.3 | 186.3 | 186.5 | 186.5 | 201.8 | 154.7 | 180.6 | 180.6 | 180.8 | 180.8 | 194.3 | 151.7 | 174.1 | 174.1 | 174.3 | 174.3 | 185.9 | 148.4 | 166.8 | 166.8 | 167.0 | 167.0 | 176.7 | 144.8 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-12— Gross Cooling Capacities (kW) TTA155B Condensing Unit with TWE200B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-------------------------------|--------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|------------------------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb (°C) | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | | Entering Wet Bulb (°C) | | | | | |
| | | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 | 16.1 | 19.4 | 22.8 | 26.1 | 29.4 | 32.7 |
| Airflow | | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 7646 | 23.9 | 46.2 | 36.4 | 51.0 | 30.2 | 55.9 | 20.7 | 44.6 | 35.6 | 49.2 | 29.5 | 53.8 | 20.0 | 42.7 | 34.6 | 47.0 | 28.6 | 51.3 | 19.1 | 40.5 | 33.5 | 44.6 | 27.6 | 48.7 | 18.2 |
| | 26.7 | 46.5 | 42.5 | 51.1 | 35.1 | 56.2 | 27.3 | 44.9 | 41.7 | 49.3 | 34.3 | 54.1 | 26.5 | 43.0 | 40.7 | 47.2 | 33.3 | 51.8 | 25.6 | 41.0 | 39.7 | 44.8 | 32.2 | 49.2 | 24.7 |
| | 29.4 | 47.5 | 47.5 | 51.4 | 41.1 | 56.4 | 33.6 | 46.2 | 46.2 | 49.5 | 40.3 | 54.4 | 32.8 | 44.6 | 44.6 | 47.4 | 39.3 | 52.1 | 31.9 | 42.7 | 42.7 | 45.1 | 38.2 | 49.3 | 30.7 |
| | 32.2 | 50.0 | 50.0 | 51.6 | 47.2 | 56.5 | 39.6 | 48.6 | 48.6 | 49.8 | 46.4 | 54.5 | 38.7 | 46.9 | 46.9 | 47.8 | 45.5 | 52.2 | 37.8 | 45.0 | 45.0 | 45.6 | 44.4 | 49.7 | 36.8 |
| 8495 | 23.9 | 47.2 | 38.1 | 52.0 | 30.1 | 56.8 | 21.1 | 45.5 | 37.3 | 50.1 | 29.3 | 54.6 | 20.3 | 43.5 | 36.3 | 47.8 | 28.4 | 52.1 | 19.4 | 41.3 | 35.2 | 45.4 | 27.4 | 49.3 | 18.5 |
| | 26.7 | 47.6 | 44.8 | 52.1 | 36.6 | 57.2 | 28.2 | 45.9 | 44.0 | 50.2 | 35.8 | 55.0 | 27.4 | 44.0 | 43.0 | 48.0 | 34.8 | 52.6 | 26.5 | 41.7 | 41.7 | 45.6 | 33.7 | 50.0 | 25.6 |
| | 29.4 | 49.2 | 49.2 | 52.4 | 43.3 | 57.4 | 35.1 | 47.7 | 47.7 | 50.5 | 42.4 | 55.3 | 34.3 | 46.0 | 46.0 | 48.3 | 41.4 | 52.7 | 33.1 | 44.1 | 44.1 | 45.9 | 40.3 | 50.1 | 32.1 |
| | 32.2 | 51.7 | 51.7 | 52.7 | 50.0 | 57.5 | 41.6 | 50.2 | 50.2 | 50.9 | 49.2 | 55.4 | 40.7 | 48.4 | 48.4 | 48.9 | 48.2 | 53.1 | 39.8 | 46.5 | 46.5 | 46.5 | 46.5 | 50.5 | 38.7 |
| 9345 | 23.9 | 48.0 | 39.8 | 52.8 | 31.1 | 57.5 | 21.4 | 46.3 | 38.9 | 50.8 | 30.3 | 55.2 | 20.7 | 44.2 | 37.9 | 48.5 | 29.4 | 52.6 | 19.8 | 41.9 | 36.7 | 45.8 | 28.0 | 49.8 | 18.8 |
| | 26.7 | 48.5 | 47.1 | 52.9 | 38.1 | 58.0 | 29.1 | 46.8 | 46.2 | 51.0 | 37.3 | 55.8 | 28.3 | 44.8 | 44.8 | 48.7 | 36.2 | 53.3 | 27.4 | 42.8 | 42.8 | 46.3 | 35.1 | 50.6 | 26.5 |
| | 29.4 | 50.6 | 50.6 | 53.2 | 45.3 | 58.1 | 36.3 | 49.1 | 49.1 | 51.3 | 44.4 | 55.9 | 35.4 | 47.3 | 47.3 | 49.0 | 43.5 | 53.5 | 34.4 | 45.3 | 45.3 | 46.6 | 42.4 | 50.8 | 33.4 |
| | 32.2 | 53.2 | 53.2 | 53.8 | 52.7 | 58.4 | 43.5 | 51.6 | 51.6 | 51.9 | 51.8 | 56.2 | 42.6 | 49.8 | 49.8 | 49.8 | 49.8 | 53.8 | 41.6 | 47.7 | 47.7 | 47.8 | 47.8 | 51.2 | 40.6 |
| 10194 | 23.9 | 48.7 | 41.4 | 53.4 | 32.1 | 58.1 | 21.8 | 46.9 | 40.5 | 51.2 | 31.0 | 55.7 | 21.0 | 44.8 | 39.4 | 48.9 | 30.0 | 53.1 | 20.1 | 42.5 | 38.3 | 46.5 | 29.3 | 50.2 | 19.1 |
| | 26.7 | 49.4 | 49.3 | 53.7 | 39.6 | 58.6 | 30.0 | 47.6 | 47.6 | 51.6 | 38.7 | 56.4 | 29.1 | 45.8 | 45.8 | 49.4 | 37.6 | 53.8 | 28.3 | 43.8 | 43.8 | 46.8 | 36.5 | 51.1 | 27.3 |
| | 29.4 | 51.8 | 51.8 | 53.9 | 47.3 | 58.8 | 37.6 | 50.3 | 50.3 | 52.0 | 46.4 | 56.6 | 36.7 | 48.4 | 48.4 | 49.7 | 45.4 | 54.1 | 35.7 | 46.3 | 46.3 | 47.2 | 44.3 | 51.4 | 34.6 |
| | 32.2 | 54.5 | 54.5 | 54.6 | 54.6 | 59.1 | 45.3 | 52.9 | 52.9 | 52.9 | 52.9 | 56.9 | 44.4 | 51.0 | 51.0 | 51.0 | 51.0 | 54.4 | 43.5 | 48.8 | 48.8 | 48.9 | 48.9 | 51.7 | 42.4 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity



Performance Data System

Table PD-13 — Gross Cooling Capacities (MBh) - Both Compressors - TTA155C Condensing Unit With TWE155B Air Handler (I-P)

| CFM | | Enter. Dry Bulb | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| | | | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | |
| 4500 | 75 | 153.7 | 120.4 | 169.7 | 101.2 | 186.5 | 69.1 | 148.4 | 117.7 | 163.7 | 98.8 | 179.5 | 66.6 | 142.2 | 114.5 | 156.6 | 95.9 | 171.4 | 63.8 | 135.1 | 110.9 | 148.7 | 92.7 | 162.4 | 60.8 | |
| | 80 | 154.5 | 140.2 | 170.0 | 116.1 | 187.2 | 90.5 | 149.4 | 137.5 | 164.1 | 113.4 | 180.3 | 87.9 | 143.3 | 134.4 | 157.1 | 110.2 | 172.5 | 85.0 | 136.4 | 130.9 | 149.3 | 106.6 | 163.9 | 81.8 | |
| | 85 | 157.6 | 157.6 | 170.9 | 135.9 | 187.9 | 111.2 | 153.2 | 153.2 | 164.9 | 133.1 | 181.1 | 108.6 | 147.9 | 147.9 | 158.0 | 129.9 | 173.4 | 105.7 | 141.9 | 141.9 | 150.2 | 126.3 | 164.9 | 102.6 | |
| | 90 | 165.7 | 165.7 | 171.7 | 155.8 | 188.2 | 130.9 | 161.1 | 161.1 | 165.9 | 153.0 | 181.5 | 128.1 | 155.6 | 155.6 | 159.1 | 149.9 | 173.9 | 124.9 | 149.4 | 149.4 | 151.7 | 146.5 | 165.4 | 121.5 | |
| 5000 | 75 | 156.9 | 125.9 | 172.9 | 99.6 | 189.5 | 70.2 | 151.4 | 123.1 | 166.6 | 97.0 | 182.1 | 67.7 | 144.9 | 119.8 | 159.3 | 93.9 | 173.8 | 64.9 | 137.6 | 116.1 | 151.2 | 90.6 | 164.7 | 61.8 | |
| | 80 | 158.0 | 147.6 | 173.4 | 121.1 | 190.4 | 93.5 | 152.6 | 144.9 | 167.1 | 118.3 | 183.3 | 90.9 | 146.4 | 141.7 | 159.9 | 115.0 | 175.3 | 87.9 | 139.4 | 138.1 | 151.9 | 111.3 | 166.4 | 84.8 | |
| | 85 | 162.9 | 162.9 | 174.2 | 142.7 | 191.2 | 116.1 | 158.2 | 158.2 | 168.0 | 139.8 | 184.2 | 113.5 | 152.7 | 152.7 | 160.8 | 136.5 | 175.7 | 109.7 | 146.3 | 146.3 | 152.8 | 132.9 | 167.0 | 106.1 | |
| | 90 | 171.4 | 171.4 | 175.4 | 164.5 | 191.6 | 137.2 | 166.4 | 166.4 | 169.4 | 161.8 | 184.7 | 134.3 | 160.7 | 160.7 | 162.5 | 158.6 | 176.8 | 131.1 | 154.2 | 154.2 | 154.3 | 154.3 | 168.1 | 127.6 | |
| 5500 | 75 | 159.6 | 131.1 | 175.5 | 102.9 | 191.8 | 71.5 | 153.9 | 128.2 | 169.0 | 100.2 | 184.3 | 68.9 | 147.2 | 124.8 | 161.5 | 97.2 | 175.8 | 66.1 | 139.6 | 121.1 | 152.5 | 92.8 | 166.4 | 62.8 | |
| | 80 | 161.1 | 154.8 | 176.1 | 125.8 | 193.0 | 96.4 | 155.6 | 152.0 | 169.7 | 122.9 | 185.7 | 93.7 | 149.3 | 148.7 | 162.3 | 119.6 | 177.5 | 90.7 | 142.1 | 142.1 | 154.0 | 115.9 | 168.5 | 87.5 | |
| | 85 | 167.6 | 167.6 | 177.0 | 149.2 | 193.4 | 120.0 | 162.6 | 162.6 | 170.6 | 146.2 | 186.2 | 117.1 | 156.8 | 156.8 | 163.2 | 142.9 | 178.1 | 113.8 | 150.2 | 150.2 | 155.1 | 139.3 | 169.2 | 110.2 | |
| | 90 | 176.3 | 176.3 | 178.7 | 173.0 | 194.5 | 143.2 | 171.1 | 171.1 | 172.6 | 170.2 | 187.3 | 140.3 | 165.0 | 165.0 | 165.2 | 165.2 | 179.2 | 137.1 | 158.2 | 158.2 | 158.4 | 158.4 | 170.4 | 133.5 | |
| 6000 | 75 | 161.9 | 136.0 | 177.8 | 106.1 | 193.8 | 72.7 | 156.0 | 133.1 | 171.1 | 103.3 | 186.1 | 70.0 | 149.1 | 129.7 | 162.8 | 99.2 | 177.4 | 66.9 | 141.4 | 125.9 | 154.3 | 95.4 | 167.8 | 63.6 | |
| | 80 | 163.9 | 161.7 | 178.5 | 130.3 | 195.3 | 99.1 | 157.7 | 157.7 | 171.9 | 127.4 | 187.8 | 96.4 | 151.9 | 151.9 | 164.3 | 124.0 | 179.4 | 93.4 | 145.3 | 145.3 | 155.9 | 120.2 | 170.2 | 90.2 | |
| | 85 | 171.6 | 171.6 | 179.4 | 155.4 | 195.8 | 124.0 | 166.4 | 166.4 | 172.8 | 152.5 | 188.5 | 121.1 | 160.4 | 160.4 | 165.4 | 149.1 | 180.2 | 117.8 | 153.5 | 153.5 | 157.1 | 145.5 | 171.1 | 114.1 | |
| | 90 | 180.6 | 180.6 | 181.9 | 181.2 | 196.9 | 149.0 | 175.2 | 175.2 | 175.3 | 175.3 | 189.5 | 146.1 | 168.9 | 168.9 | 169.0 | 169.0 | 181.3 | 142.8 | 161.9 | 161.9 | 162.0 | 162.0 | 172.3 | 139.2 | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity

Table PD-13 — Gross Cooling Capacities (kW) - Both Compressors - TTA155C Condensing Unit With TWE155B Air Handler (SI)

| m³/h | | Enter. Dry Bulb | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|
| | | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| | | | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | |
| 7646 | 24 | 45.0 | 35.3 | 49.7 | 29.6 | 54.6 | 20.2 | 43.5 | 34.5 | 47.9 | 28.9 | 52.6 | 19.5 | 41.6 | 33.5 | 45.9 | 28.1 | 50.2 | 18.7 | 39.6 | 32.5 | 43.6 | 27.2 | 47.6 | 17.8 | |
| | 27 | 45.2 | 41.1 | 49.8 | 34.0 | 54.8 | 26.5 | 43.7 | 40.3 | 48.0 | 33.2 | 52.8 | 25.7 | 41.9 | 39.4 | 46.0 | 32.3 | 50.5 | 24.9 | 39.9 | 38.3 | 43.7 | 31.2 | 48.0 | 24.0 | |
| | 29 | 46.1 | 46.1 | 50.0 | 39.8 | 55.0 | 32.6 | 44.9 | 44.9 | 48.3 | 39.0 | 53.0 | 31.8 | 43.3 | 43.3 | 46.3 | 38.0 | 50.8 | 31.0 | 41.6 | 41.6 | 44.0 | 37.0 | 48.3 | 30.0 | |
| | 32 | 48.5 | 48.5 | 50.3 | 45.6 | 55.1 | 38.3 | 47.2 | 47.2 | 48.6 | 44.8 | 53.1 | 37.5 | 45.6 | 45.6 | 46.6 | 43.9 | 50.9 | 36.6 | 43.8 | 43.8 | 44.4 | 42.9 | 48.4 | 35.6 | |
| 8495 | 24 | 45.9 | 36.9 | 50.6 | 29.2 | 55.5 | 20.6 | 44.3 | 36.0 | 48.8 | 28.4 | 53.3 | 19.8 | 42.4 | 35.1 | 46.6 | 27.5 | 50.9 | 19.0 | 40.3 | 34.0 | 44.3 | 26.5 | 48.2 | 18.1 | |
| | 27 | 46.3 | 43.2 | 50.8 | 35.5 | 55.7 | 27.4 | 44.7 | 42.4 | 48.9 | 34.6 | 53.7 | 26.6 | 42.9 | 41.5 | 46.8 | 33.7 | 51.3 | 25.8 | 40.8 | 40.4 | 44.5 | 32.6 | 48.7 | 24.8 | |
| | 29 | 47.7 | 47.7 | 51.0 | 41.8 | 56.0 | 34.0 | 46.3 | 46.3 | 49.2 | 40.9 | 53.9 | 33.2 | 44.7 | 44.7 | 47.1 | 40.0 | 51.4 | 32.1 | 42.8 | 42.8 | 44.7 | 38.9 | 48.9 | 31.1 | |
| | 32 | 50.2 | 50.2 | 51.4 | 48.2 | 56.1 | 40.2 | 48.7 | 48.7 | 49.6 | 47.4 | 54.1 | 39.3 | 47.0 | 47.0 | 47.6 | 46.4 | 51.8 | 38.4 | 45.1 | 45.1 | 45.2 | 45.2 | 49.2 | 37.4 | |
| 9345 | 24 | 46.7 | 38.4 | 51.4 | 30.1 | 56.2 | 20.9 | 45.1 | 37.5 | 49.5 | 29.3 | 54.0 | 20.2 | 43.1 | 36.6 | 47.3 | 28.4 | 51.5 | 19.3 | 40.9 | 35.4 | 44.7 | 27.2 | 48.7 | 18.4 | |
| | 27 | 47.2 | 45.3 | 51.6 | 36.8 | 56.5 | 28.2 | 45.6 | 44.5 | 49.7 | 36.0 | 54.4 | 27.4 | 43.7 | 43.6 | 47.5 | 35.0 | 52.0 | 26.6 | 41.6 | 41.6 | 45.1 | 33.9 | 49.3 | 25.6 | |
| | 29 | 49.1 | 49.1 | 51.8 | 43.7 | 56.6 | 35.1 | 47.6 | 47.6 | 49.9 | 42.8 | 54.5 | 34.3 | 45.9 | 45.9 | 47.8 | 41.9 | 52.2 | 33.3 | 44.0 | 44.0 | 45.4 | 40.8 | 49.6 | 32.3 | |
| | 32 | 51.6 | 51.6 | 52.3 | 50.7 | 56.9 | 41.9 | 50.1 | 50.1 | 50.5 | 49.8 | 54.8 | 41.1 | 48.3 | 48.3 | 48.4 | 48.4 | 52.5 | 40.1 | 46.3 | 46.3 | 46.4 | 46.4 | 49.9 | 39.1 | |
| 10194 | 24 | 47.4 | 39.8 | 52.1 | 31.1 | 56.7 | 21.3 | 45.7 | 39.0 | 50.1 | 30.3 | 54.5 | 20.5 | 43.7 | 38.0 | 47.7 | 29.1 | 52.0 | 19.6 | 41.4 | 36.9 | 45.2 | 27.9 | 49.1 | 18.6 | |
| | 27 | 48.0 | 47.3 | 52.3 | 38.2 | 57.2 | 29.0 | 46.2 | 46.2 | 50.3 | 37.3 | 55.0 | 28.2 | 44.5 | 44.5 | 48.1 | 36.3 | 52.5 | 27.3 | 42.5 | 42.5 | 45.6 | 35.2 | 49.8 | 26.4 | |
| | 29 | 50.3 | 50.3 | 52.5 | 45.5 | 57.3 | 36.3 | 48.7 | 48.7 | 50.6 | 44.6 | 55.2 | 35.5 | 47.0 | 47.0 | 48.4 | 43.7 | 52.8 | 34.5 | 45.0 | 45.0 | 46.0 | 42.6 | 50.1 | 33.4 | |
| | 32 | 52.9 | 52.9 | 53.3 | 53.1 | 57.6 | 43.6 | 51.3 | 51.3 | 51.3 | 51.3 | 55.5 | 42.8 | 49.4 | 49.4 | 49.5 | 49.5 | 53.1 | 41.8 | 47.4 | 47.4 | 47.4 | 47.4 | 50.4 | 40.8 | |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.

To obtain net cooling capacities subtract indoor fan heat.

TGC = Total Gross Cooling Capacity

SHC = Sensible Heat Capacity



Performance Data

System

Table PD-14 — Gross Cooling Capacities (MBh) - Single Compressor - TTA155C Condensing Unit with TWE155B Air Handler (I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 4500 | 75 | 94.3 | 92.3 | 103.0 | 67.8 | 112.7 | 43.8 | 91.7 | 91.0 | 99.8 | 66.5 | 108.7 | 42.4 | 88.2 | 88.2 | 96.0 | 64.8 | 104.3 | 41.0 | 84.6 | 84.6 | 91.6 | 62.9 | 99.3 | 39.4 |
| | 80 | 99.4 | 99.4 | 103.6 | 87.7 | 113.5 | 63.2 | 96.8 | 96.8 | 100.4 | 86.4 | 109.6 | 61.8 | 93.7 | 93.7 | 96.6 | 84.8 | 105.3 | 60.1 | 90.0 | 90.0 | 92.3 | 83.0 | 100.6 | 58.3 |
| | 85 | 105.3 | 105.3 | 105.4 | 105.4 | 114.2 | 83.1 | 102.5 | 102.5 | 102.6 | 102.6 | 110.4 | 81.7 | 99.2 | 99.2 | 99.3 | 99.3 | 106.1 | 80.1 | 95.4 | 95.4 | 95.5 | 95.5 | 101.4 | 78.3 |
| | 90 | 111.3 | 111.3 | 111.5 | 111.5 | 114.8 | 103.2 | 108.4 | 108.4 | 108.5 | 108.5 | 111.2 | 101.9 | 104.9 | 104.9 | 105.0 | 105.0 | 107.0 | 100.3 | 100.9 | 100.9 | 101.0 | 101.0 | 102.3 | 98.5 |
| 5000 | 75 | 95.8 | 95.8 | 104.2 | 72.0 | 113.7 | 43.9 | 93.3 | 93.3 | 100.9 | 70.8 | 109.5 | 42.6 | 90.1 | 90.1 | 97.0 | 69.3 | 105.0 | 41.1 | 86.4 | 86.4 | 92.5 | 65.6 | 100.0 | 39.5 |
| | 80 | 101.8 | 101.8 | 104.9 | 92.4 | 114.9 | 66.6 | 99.1 | 99.1 | 101.6 | 91.1 | 110.9 | 65.3 | 95.8 | 95.8 | 97.8 | 89.5 | 106.5 | 63.9 | 92.0 | 92.0 | 93.4 | 87.6 | 101.6 | 62.3 |
| | 85 | 107.9 | 107.9 | 108.0 | 108.0 | 115.4 | 87.3 | 105.0 | 105.0 | 105.0 | 105.0 | 111.6 | 85.9 | 101.5 | 101.5 | 101.6 | 101.6 | 107.2 | 84.3 | 97.6 | 97.6 | 97.6 | 97.6 | 102.3 | 82.5 |
| | 90 | 114.1 | 114.1 | 114.3 | 114.3 | 116.3 | 109.4 | 111.0 | 111.0 | 111.1 | 111.1 | 112.6 | 108.1 | 107.4 | 107.4 | 107.5 | 107.5 | 108.4 | 106.5 | 103.3 | 103.3 | 103.4 | 103.4 | 103.5 | 103.5 |
| 5500 | 75 | 97.7 | 97.7 | 105.2 | 73.3 | 114.5 | 44.7 | 95.0 | 95.0 | 101.8 | 71.9 | 110.2 | 43.4 | 91.8 | 91.8 | 97.8 | 70.2 | 105.6 | 41.9 | 88.0 | 88.0 | 93.2 | 68.2 | 100.4 | 40.3 |
| | 80 | 103.8 | 103.8 | 106.0 | 97.0 | 115.8 | 69.3 | 101.0 | 101.0 | 102.7 | 95.6 | 111.8 | 68.0 | 97.6 | 97.6 | 98.8 | 94.0 | 107.3 | 66.5 | 93.6 | 93.6 | 94.4 | 92.1 | 102.4 | 64.9 |
| | 85 | 110.1 | 110.1 | 110.2 | 110.2 | 116.4 | 91.5 | 107.0 | 107.0 | 107.1 | 107.1 | 112.5 | 90.0 | 103.4 | 103.4 | 103.5 | 103.5 | 108.1 | 88.4 | 99.4 | 99.4 | 99.4 | 99.4 | 103.1 | 86.5 |
| | 90 | 116.5 | 116.5 | 116.6 | 116.6 | 117.6 | 115.4 | 113.3 | 113.3 | 113.4 | 113.4 | 113.5 | 113.5 | 109.5 | 109.5 | 109.6 | 109.6 | 109.7 | 109.7 | 105.3 | 105.3 | 105.4 | 105.4 | 105.5 | 105.5 |
| 6000 | 75 | 99.3 | 99.3 | 106.0 | 75.9 | 115.1 | 45.5 | 96.6 | 96.6 | 102.6 | 74.5 | 110.7 | 44.1 | 93.2 | 93.2 | 98.5 | 72.7 | 106.1 | 42.6 | 89.3 | 89.3 | 93.9 | 70.7 | 100.8 | 41.0 |
| | 80 | 105.6 | 105.6 | 107.0 | 101.4 | 116.6 | 71.8 | 102.6 | 102.6 | 103.7 | 100.0 | 112.5 | 70.5 | 99.1 | 99.1 | 99.8 | 98.3 | 107.9 | 69.1 | 95.1 | 95.1 | 95.1 | 95.1 | 103.0 | 67.5 |
| | 85 | 112.0 | 112.0 | 112.1 | 112.1 | 117.2 | 95.5 | 108.9 | 108.9 | 109.0 | 109.0 | 113.3 | 94.0 | 105.2 | 105.2 | 105.2 | 105.2 | 108.8 | 92.3 | 101.0 | 101.0 | 101.0 | 101.0 | 103.9 | 90.5 |
| | 90 | 118.5 | 118.5 | 118.6 | 118.6 | 118.7 | 118.7 | 115.2 | 115.2 | 115.3 | 115.3 | 115.4 | 115.4 | 111.4 | 111.4 | 111.5 | 111.5 | 111.5 | 111.5 | 107.0 | 107.0 | 107.1 | 107.1 | 107.2 | 107.2 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-14 — Gross Cooling Capacities (kW) - Single Compressor - TTA155C Condensing Unit with TWE155B Air Handler (SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 7646 | 24 | 27.6 | 27.0 | 30.2 | 19.9 | 33.0 | 12.8 | 26.8 | 26.7 | 29.2 | 19.5 | 31.8 | 12.4 | 25.8 | 25.8 | 28.1 | 19.0 | 30.5 | 12.0 | 24.8 | 24.8 | 26.8 | 18.4 | 29.1 | 11.6 |
| | 27 | 29.1 | 29.1 | 30.3 | 25.7 | 33.2 | 18.5 | 28.4 | 28.4 | 29.4 | 25.3 | 32.1 | 18.1 | 27.4 | 27.4 | 28.3 | 24.8 | 30.8 | 17.6 | 26.3 | 26.3 | 27.0 | 24.3 | 29.4 | 17.1 |
| | 29 | 30.8 | 30.8 | 30.9 | 30.9 | 33.4 | 24.3 | 30.0 | 30.0 | 30.1 | 30.1 | 32.3 | 23.9 | 29.1 | 29.1 | 29.1 | 29.1 | 31.1 | 23.4 | 27.9 | 27.9 | 28.0 | 28.0 | 29.7 | 22.9 |
| | 32 | 32.6 | 32.6 | 32.6 | 32.6 | 33.6 | 30.2 | 31.7 | 31.7 | 31.8 | 31.8 | 32.6 | 29.8 | 30.7 | 30.7 | 30.7 | 30.7 | 31.3 | 29.4 | 29.6 | 29.6 | 29.6 | 29.6 | 30.0 | 28.9 |
| 8495 | 24 | 28.0 | 28.0 | 30.5 | 21.1 | 33.3 | 12.9 | 27.3 | 27.3 | 29.6 | 20.7 | 32.1 | 12.5 | 26.4 | 26.4 | 28.4 | 20.3 | 30.8 | 12.0 | 25.3 | 25.3 | 27.1 | 19.2 | 29.3 | 11.6 |
| | 27 | 29.8 | 29.8 | 30.7 | 27.1 | 33.6 | 19.5 | 29.0 | 29.0 | 29.8 | 26.7 | 32.5 | 19.1 | 28.0 | 28.0 | 28.6 | 26.2 | 31.2 | 18.7 | 26.9 | 26.9 | 27.3 | 25.7 | 29.8 | 18.2 |
| | 29 | 31.6 | 31.6 | 31.6 | 31.6 | 33.8 | 25.6 | 30.7 | 30.7 | 30.8 | 30.8 | 32.7 | 25.2 | 29.7 | 29.7 | 29.7 | 29.7 | 31.4 | 24.7 | 28.6 | 28.6 | 28.6 | 28.6 | 30.0 | 24.2 |
| | 32 | 33.4 | 33.4 | 33.5 | 33.5 | 34.0 | 32.0 | 32.5 | 32.5 | 32.5 | 32.5 | 33.0 | 31.6 | 31.4 | 31.4 | 31.5 | 31.5 | 31.7 | 31.2 | 30.2 | 30.2 | 30.3 | 30.3 | 30.3 | 30.3 |
| 9345 | 24 | 28.6 | 28.6 | 30.8 | 21.5 | 33.5 | 13.1 | 27.8 | 27.8 | 29.8 | 21.1 | 32.3 | 12.7 | 26.9 | 26.9 | 28.6 | 20.6 | 30.9 | 12.3 | 25.8 | 25.8 | 27.3 | 20.0 | 29.4 | 11.8 |
| | 27 | 30.4 | 30.4 | 31.0 | 28.4 | 33.9 | 20.3 | 29.6 | 29.6 | 30.1 | 28.0 | 32.7 | 19.9 | 28.6 | 28.6 | 28.9 | 27.5 | 31.4 | 19.5 | 27.4 | 27.4 | 27.6 | 27.0 | 30.0 | 19.0 |
| | 29 | 32.2 | 32.2 | 32.3 | 32.3 | 34.1 | 26.8 | 31.3 | 31.3 | 31.4 | 31.4 | 32.9 | 26.4 | 30.3 | 30.3 | 30.3 | 30.3 | 31.6 | 25.9 | 29.1 | 29.1 | 29.1 | 29.1 | 30.2 | 25.3 |
| | 32 | 34.1 | 34.1 | 34.1 | 34.1 | 34.4 | 33.8 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 33.2 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 32.1 | 30.8 | 30.8 | 30.9 | 30.9 | 30.9 | 30.9 |
| 10194 | 24 | 29.1 | 29.1 | 31.0 | 22.2 | 33.7 | 13.3 | 28.3 | 28.3 | 30.0 | 21.8 | 32.4 | 12.9 | 27.3 | 27.3 | 28.8 | 21.3 | 31.1 | 12.5 | 26.1 | 26.1 | 27.5 | 20.7 | 29.5 | 12.0 |
| | 27 | 30.9 | 30.9 | 31.3 | 29.7 | 34.1 | 21.0 | 30.1 | 30.1 | 30.4 | 29.3 | 32.9 | 20.6 | 29.0 | 29.0 | 29.2 | 28.8 | 31.6 | 20.2 | 27.8 | 27.8 | 27.9 | 27.9 | 30.1 | 19.8 |
| | 29 | 32.8 | 32.8 | 32.8 | 32.8 | 34.3 | 28.0 | 31.9 | 31.9 | 31.9 | 31.9 | 33.2 | 27.5 | 30.8 | 30.8 | 30.8 | 30.8 | 31.9 | 27.0 | 29.6 | 29.6 | 29.6 | 29.6 | 30.4 | 26.5 |
| | 32 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 34.7 | 33.7 | 33.7 | 33.7 | 33.8 | 33.8 | 33.8 | 33.8 | 32.6 | 32.6 | 32.6 | 32.6 | 32.7 | 32.7 | 31.3 | 31.3 | 31.4 | 31.4 | 31.4 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity



Performance Data System

Table PD-15 — Gross Cooling Capacities (MBh) TTA200B Condensing Unit with TWE200B Air Handler

(I-P)

| | | Ambient Temperature (°F) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 85 | | | | | | 95 | | | | | | 105 | | | | | | 115 | | | | | |
| CFM | Enter. Dry Bulb | Entering Wet Bulb (°F) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | | 61 | | 67 | | 73 | |
| Airflow | (°F) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 6000 | 75 | 203.5 | 160.6 | 224.5 | 134.3 | 247.0 | 91.4 | 195.8 | 156.6 | 215.9 | 130.8 | 237.4 | 88.1 | 187.6 | 152.4 | 207.0 | 127.2 | 227.3 | 84.6 | 179.2 | 148.2 | 197.8 | 123.5 | 216.6 | 81.0 |
| | 80 | 204.7 | 187.3 | 224.9 | 154.7 | 247.8 | 120.1 | 197.2 | 183.4 | 216.5 | 150.8 | 238.4 | 116.6 | 189.3 | 179.4 | 207.7 | 146.8 | 228.7 | 113.0 | 181.1 | 175.3 | 198.6 | 142.6 | 218.6 | 109.2 |
| | 85 | 209.3 | 209.3 | 226.0 | 181.2 | 248.8 | 148.0 | 202.9 | 202.9 | 217.6 | 177.4 | 239.4 | 144.5 | 196.1 | 196.1 | 208.8 | 173.4 | 229.8 | 140.8 | 189.0 | 189.0 | 199.7 | 169.2 | 219.8 | 137.2 |
| | 90 | 220.0 | 220.0 | 227.3 | 208.2 | 249.1 | 174.6 | 213.4 | 213.4 | 219.1 | 204.4 | 239.8 | 170.9 | 206.5 | 206.5 | 210.7 | 200.5 | 230.3 | 167.0 | 199.3 | 199.3 | 202.0 | 196.5 | 220.4 | 162.9 |
| 6675 | 75 | 207.6 | 168.0 | 228.8 | 132.3 | 250.9 | 93.0 | 199.6 | 164.0 | 219.9 | 128.6 | 240.9 | 89.6 | 191.2 | 159.7 | 210.7 | 124.8 | 230.5 | 86.0 | 182.5 | 155.4 | 201.2 | 121.0 | 219.8 | 82.4 |
| | 80 | 209.3 | 197.5 | 229.3 | 161.5 | 252.0 | 124.2 | 201.6 | 193.5 | 220.5 | 157.5 | 242.3 | 120.6 | 193.6 | 189.5 | 211.4 | 153.4 | 232.3 | 117.0 | 185.4 | 185.3 | 202.1 | 149.2 | 221.9 | 113.2 |
| | 85 | 216.3 | 216.3 | 230.4 | 190.6 | 253.1 | 154.7 | 209.6 | 209.6 | 221.6 | 186.6 | 243.5 | 151.1 | 202.4 | 202.4 | 212.6 | 182.6 | 232.8 | 146.5 | 195.0 | 195.0 | 203.3 | 178.4 | 222.5 | 142.3 |
| | 90 | 227.5 | 227.5 | 232.3 | 220.2 | 253.6 | 183.3 | 220.6 | 220.6 | 224.0 | 216.4 | 244.0 | 179.4 | 213.3 | 213.3 | 215.4 | 212.5 | 234.1 | 175.5 | 205.7 | 205.7 | 205.9 | 205.9 | 223.9 | 171.4 |
| 7350 | 75 | 211.1 | 175.1 | 232.2 | 136.8 | 254.0 | 94.7 | 202.8 | 171.0 | 223.1 | 133.1 | 243.7 | 91.2 | 194.2 | 166.7 | 213.7 | 129.3 | 233.2 | 87.5 | 185.3 | 162.3 | 203.0 | 124.3 | 222.2 | 83.7 |
| | 80 | 213.4 | 207.2 | 232.9 | 168.0 | 255.5 | 128.1 | 205.6 | 203.3 | 223.9 | 163.9 | 245.5 | 124.5 | 196.9 | 196.9 | 214.6 | 159.8 | 235.3 | 120.8 | 189.3 | 189.3 | 205.0 | 155.5 | 224.6 | 117.0 |
| | 85 | 222.4 | 222.4 | 234.0 | 199.5 | 256.7 | 161.0 | 215.4 | 215.4 | 225.1 | 195.5 | 246.1 | 156.2 | 208.0 | 208.0 | 216.0 | 191.4 | 236.0 | 152.2 | 200.3 | 200.3 | 206.5 | 187.2 | 225.5 | 148.0 |
| | 90 | 234.1 | 234.1 | 236.9 | 231.9 | 257.3 | 191.6 | 226.8 | 226.8 | 228.5 | 228.1 | 247.5 | 187.7 | 219.2 | 219.2 | 219.5 | 219.5 | 237.3 | 183.6 | 211.3 | 211.3 | 211.5 | 211.5 | 226.9 | 179.5 |
| 8025 | 75 | 214.1 | 181.9 | 235.2 | 141.1 | 256.7 | 96.2 | 205.6 | 177.7 | 225.8 | 137.3 | 246.2 | 92.5 | 196.8 | 173.4 | 215.4 | 132.3 | 235.3 | 88.7 | 187.8 | 168.9 | 205.5 | 127.9 | 224.1 | 84.8 |
| | 80 | 217.3 | 216.7 | 236.0 | 174.2 | 258.5 | 131.8 | 208.9 | 208.9 | 226.8 | 170.1 | 248.3 | 128.1 | 201.4 | 201.4 | 217.3 | 165.8 | 237.8 | 124.4 | 193.6 | 193.6 | 207.5 | 161.5 | 226.9 | 120.6 |
| | 85 | 227.9 | 227.9 | 237.3 | 208.1 | 259.2 | 165.7 | 220.6 | 220.6 | 228.3 | 204.1 | 249.1 | 161.8 | 212.9 | 212.9 | 218.9 | 200.0 | 238.7 | 157.7 | 204.9 | 204.9 | 209.4 | 195.7 | 228.0 | 153.4 |
| | 90 | 239.9 | 239.9 | 240.1 | 240.1 | 260.5 | 199.6 | 232.4 | 232.4 | 232.6 | 232.6 | 250.4 | 195.6 | 224.5 | 224.5 | 224.7 | 224.7 | 240.1 | 191.5 | 216.3 | 216.3 | 216.5 | 216.5 | 229.4 | 187.3 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Table PD-15 — Gross Cooling Capacities (MBh) TTA200B Condensing Unit with TWE200B Air Handler

(SI)

| | | Ambient Temperature (°C) | | | | | | | | | | | | | | | | | | | | | | | |
|---------|-----------------------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | 29.4 | | | | | | 35.0 | | | | | | 40.6 | | | | | | 46.1 | | | | | |
| m³/h | Enter. Dry Bulb | Entering Wet Bulb (°C) | | | | | | | | | | | | | | | | | | | | | | | |
| | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | | 16.1 | | 19.4 | | 22.8 | |
| Airflow | (°C) | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC | TGC | SHC |
| 10194 | 24 | 59.6 | 47.0 | 65.7 | 39.3 | 72.3 | 26.8 | 57.3 | 45.8 | 63.2 | 38.3 | 69.5 | 25.8 | 54.9 | 44.6 | 60.6 | 37.3 | 66.5 | 24.8 | 52.5 | 43.4 | 57.9 | 36.2 | 63.4 | 23.7 |
| | 27 | 59.9 | 54.8 | 65.9 | 45.3 | 72.5 | 35.2 | 57.7 | 53.7 | 63.4 | 44.2 | 69.8 | 34.1 | 55.4 | 52.5 | 60.8 | 43.0 | 67.0 | 33.1 | 53.0 | 51.3 | 58.1 | 41.8 | 64.0 | 32.0 |
| | 29 | 61.3 | 61.3 | 66.2 | 53.1 | 72.8 | 43.3 | 59.4 | 59.4 | 63.7 | 51.9 | 70.1 | 42.3 | 57.4 | 57.4 | 61.1 | 50.8 | 67.3 | 41.2 | 55.3 | 55.3 | 58.5 | 49.6 | 64.3 | 40.2 |
| | 32 | 64.4 | 64.4 | 66.6 | 61.0 | 72.9 | 51.1 | 62.5 | 62.5 | 64.2 | 59.8 | 70.2 | 50.0 | 60.5 | 60.5 | 61.7 | 58.7 | 67.4 | 48.9 | 58.3 | 58.3 | 59.1 | 57.5 | 64.5 | 47.7 |
| 11341 | 24 | 60.8 | 49.2 | 67.0 | 38.7 | 73.5 | 27.2 | 58.4 | 48.0 | 64.4 | 37.7 | 70.5 | 26.2 | 56.0 | 46.8 | 61.7 | 36.6 | 67.5 | 25.2 | 53.4 | 45.5 | 58.9 | 35.4 | 64.3 | 24.1 |
| | 27 | 61.3 | 57.8 | 67.1 | 47.3 | 73.8 | 36.4 | 59.0 | 56.7 | 64.6 | 46.1 | 71.0 | 35.3 | 56.7 | 55.5 | 61.9 | 44.9 | 68.0 | 34.2 | 54.3 | 54.3 | 59.2 | 43.7 | 65.0 | 33.2 |
| | 29 | 63.3 | 63.3 | 67.5 | 55.8 | 74.1 | 45.3 | 61.4 | 61.4 | 64.9 | 54.6 | 71.3 | 44.2 | 59.3 | 59.3 | 62.2 | 53.5 | 68.2 | 42.9 | 57.1 | 57.1 | 59.5 | 52.2 | 65.2 | 41.7 |
| | 32 | 66.6 | 66.6 | 68.0 | 64.5 | 74.2 | 53.7 | 64.6 | 64.6 | 65.6 | 63.4 | 71.5 | 52.5 | 62.4 | 62.4 | 63.1 | 62.2 | 68.6 | 51.4 | 60.2 | 60.2 | 60.3 | 60.3 | 65.6 | 50.2 |
| 12488 | 24 | 61.8 | 51.3 | 68.0 | 40.1 | 74.4 | 27.7 | 59.4 | 50.1 | 65.3 | 39.0 | 71.4 | 26.7 | 56.9 | 48.8 | 62.6 | 37.8 | 68.3 | 25.6 | 54.3 | 47.5 | 59.4 | 36.4 | 65.0 | 24.5 |
| | 27 | 62.5 | 60.7 | 68.2 | 49.2 | 74.8 | 37.5 | 60.2 | 59.5 | 65.6 | 48.0 | 71.9 | 36.4 | 57.6 | 57.6 | 62.8 | 46.8 | 68.9 | 35.4 | 55.4 | 55.4 | 60.0 | 45.5 | 65.8 | 34.3 |
| | 29 | 65.1 | 65.1 | 68.5 | 58.4 | 75.2 | 47.1 | 63.1 | 63.1 | 65.9 | 57.2 | 72.1 | 45.7 | 60.9 | 60.9 | 63.2 | 56.0 | 69.1 | 44.6 | 58.6 | 58.6 | 60.5 | 54.8 | 66.0 | 43.3 |
| | 32 | 68.5 | 68.5 | 69.4 | 67.9 | 75.3 | 56.1 | 66.4 | 66.4 | 66.9 | 66.8 | 72.5 | 55.0 | 64.2 | 64.2 | 64.3 | 64.3 | 69.5 | 53.8 | 61.9 | 61.9 | 61.9 | 61.9 | 66.4 | 52.6 |
| 13634 | 24 | 62.7 | 53.3 | 68.9 | 41.3 | 75.2 | 28.2 | 60.2 | 52.0 | 66.1 | 40.2 | 72.1 | 27.1 | 57.6 | 50.8 | 63.1 | 38.7 | 68.9 | 26.0 | 55.0 | 49.5 | 60.2 | 37.5 | 65.6 | 24.8 |
| | 27 | 63.6 | 63.5 | 69.1 | 51.0 | 75.7 | 38.6 | 61.2 | 61.2 | 66.4 | 49.8 | 72.7 | 37.5 | 59.0 | 59.0 | 63.6 | 48.6 | 69.6 | 36.4 | 56.7 | 56.7 | 60.7 | 47.3 | 66.4 | 35.3 |
| | 29 | 66.7 | 66.7 | 69.5 | 60.9 | 75.9 | 48.5 | 64.6 | 64.6 | 66.8 | 59.8 | 72.9 | 47.4 | 62.3 | 62.3 | 64.1 | 58.6 | 69.9 | 46.2 | 60.0 | 60.0 | 61.3 | 57.3 | 66.8 | 44.9 |
| | 32 | 70.2 | 70.2 | 70.3 | 70.3 | 76.3 | 58.4 | 68.0 | 68.0 | 68.1 | 68.1 | 73.3 | 57.3 | 65.7 | 65.7 | 65.8 | 65.8 | 70.3 | 56.1 | 63.3 | 63.3 | 63.4 | 63.4 | 67.2 | 54.9 |

Dry coil conditions. Total Gross Cooling Capacity (MBh) shown to the left is not applicable. In this case the Sensible Heat Capacity (SHC) is the total capacity.

All capacities shown are gross and have not considered indoor fan heat.
To obtain net cooling capacities subtract indoor fan heat.
TGC = Total Gross Cooling Capacity
SHC = Sensible Heat Capacity

Performance Data

Condensing Unit

Table PD-16 — Cooling Performance (MBh) TTA075A Condensing Unit Only (I-P)

| ODTemp | | Suction Reference Temperature °F | | | | | |
|--------|-----------------|----------------------------------|------|------|------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 161 | 167 | 172 | 178 | 184 | 190 |
| | Cap. Btuh/1000 | 72.3 | 80.0 | 88.0 | 96.3 | 104.9 | 113.5 |
| | OD Unit KW | 4.91 | 5.01 | 5.12 | 5.24 | 5.37 | 5.50 |
| 75 | Head press PSIG | 187 | 193 | 198 | 205 | 211 | 217 |
| | Cap. Btuh/1000 | 70.4 | 77.8 | 85.4 | 93.2 | 101.1 | 109.1 |
| | OD Unit KW | 5.40 | 5.51 | 5.63 | 5.76 | 5.89 | 6.03 |
| 85 | Head press PSIG | 215 | 221 | 227 | 233 | 240 | 247 |
| | Cap. Btuh/1000 | 67.7 | 74.7 | 81.9 | 89.3 | 96.8 | 104.4 |
| | OD Unit KW | 5.97 | 6.10 | 6.23 | 6.37 | 6.50 | 6.65 |
| 95 | Head press PSIG | 245 | 251 | 258 | 265 | 271 | 279 |
| | Cap. Btuh/1000 | 64.5 | 71.1 | 77.9 | 84.9 | 91.9 | 99.1 |
| | OD Unit KW | 6.65 | 6.78 | 6.91 | 7.05 | 7.19 | 7.34 |
| 105 | Head press PSIG | 278 | 284 | 291 | 298 | 305 | 313 |
| | Cap. Btuh/1000 | 60.7 | 66.9 | 73.3 | 79.8 | 86.5 | 93.3 |
| | OD Unit KW | 7.40 | 7.53 | 7.66 | 7.80 | 7.94 | 8.09 |
| 115 | Head press PSIG | 313 | 320 | 327 | 334 | 341 | 349 |
| | Cap. Btuh/1000 | 56.4 | 62.2 | 68.2 | 74.4 | 80.7 | 87.2 |
| | OD Unit KW | 8.23 | 8.35 | 8.48 | 8.62 | 8.76 | 8.91 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-16 — Cooling Performance (kW) TTA075A Condensing Unit Only (SI)

| ODTemp | | Suction Reference Temperature °C | | | | | |
|--------|---------------------|----------------------------------|------|------|------|------|------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1113 | 1149 | 1187 | 1228 | 1270 | 1313 |
| | Capacity (kW) | 21.2 | 23.4 | 25.8 | 28.2 | 30.7 | 33.2 |
| | OD Unit Power (kW) | 4.91 | 5.01 | 5.12 | 5.24 | 5.37 | 5.50 |
| 23.9 | Head pressure (kPa) | 1290 | 1328 | 1368 | 1410 | 1453 | 1498 |
| | Capacity (kW) | 20.6 | 22.8 | 25.0 | 27.3 | 29.6 | 32.0 |
| | OD Unit Power (kW) | 5.40 | 5.51 | 5.63 | 5.76 | 5.89 | 6.03 |
| 29.4 | Head pressure (kPa) | 1481 | 1522 | 1565 | 1609 | 1654 | 1701 |
| | Capacity (kW) | 19.8 | 21.9 | 24.0 | 26.2 | 28.3 | 30.6 |
| | OD Unit Power (kW) | 5.97 | 6.10 | 6.23 | 6.37 | 6.50 | 6.65 |
| 35.0 | Head pressure (kPa) | 1690 | 1733 | 1778 | 1824 | 1871 | 1921 |
| | Capacity (kW) | 18.9 | 20.8 | 22.8 | 24.8 | 26.9 | 29.0 |
| | OD Unit Power (kW) | 6.65 | 6.78 | 6.91 | 7.05 | 7.19 | 7.34 |
| 40.6 | Head pressure (kPa) | 1915 | 1960 | 2007 | 2055 | 2104 | 2156 |
| | Capacity (kW) | 17.8 | 19.6 | 21.5 | 23.4 | 25.3 | 27.3 |
| | OD Unit Power (kW) | 7.40 | 7.53 | 7.66 | 7.80 | 7.94 | 8.09 |
| 46.1 | Head pressure (kPa) | 2156 | 2203 | 2251 | 2301 | 2353 | 2407 |
| | Capacity (kW) | 16.5 | 18.2 | 20.0 | 21.8 | 23.6 | 25.5 |
| | OD Unit Power (kW) | 8.23 | 8.35 | 8.48 | 8.62 | 8.76 | 8.91 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Condensing Unit

Table PD-17 — Cooling Performance (MBh) TTA085A Condensing Unit Only (I-P)

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|------|------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 154 | 159 | 164 | 169 | 175 | 180 |
| | Cap. Btuh/1000 | 82.0 | 90.5 | 99.4 | 108.7 | 118.4 | 128.5 |
| | OD Unit KW | 4.93 | 5.03 | 5.13 | 5.24 | 5.36 | 5.49 |
| 75 | Head press PSIG | 178 | 183 | 188 | 194 | 199 | 205 |
| | Cap. Btuh/1000 | 78.5 | 86.5 | 94.9 | 103.8 | 113.0 | 122.7 |
| | OD Unit KW | 5.41 | 5.51 | 5.63 | 5.75 | 5.88 | 6.02 |
| 85 | Head press PSIG | 205 | 210 | 215 | 221 | 227 | 233 |
| | Cap. Btuh/1000 | 74.7 | 82.3 | 90.3 | 98.7 | 107.6 | 116.9 |
| | OD Unit KW | 6.00 | 6.11 | 6.23 | 6.36 | 6.49 | 6.64 |
| 95 | Head press PSIG | 234 | 239 | 245 | 251 | 257 | 264 |
| | Cap. Btuh/1000 | 70.7 | 77.9 | 85.5 | 93.6 | 102.1 | 111.0 |
| | OD Unit KW | 6.69 | 6.80 | 6.93 | 7.07 | 7.22 | 7.37 |
| 105 | Head press PSIG | 265 | 271 | 277 | 283 | 290 | 297 |
| | Cap. Btuh/1000 | 66.4 | 73.3 | 80.7 | 88.4 | 96.6 | 105.0 |
| | OD Unit KW | 7.48 | 7.61 | 7.74 | 7.89 | 8.04 | 8.20 |
| 115 | Head press PSIG | 300 | 306 | 312 | 319 | 326 | 333 |
| | Cap. Btuh/1000 | 61.9 | 68.6 | 75.7 | 83.2 | 91.0 | 99.1 |
| | OD Unit KW | 8.37 | 8.51 | 8.66 | 8.81 | 8.97 | 9.13 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-17 — Cooling Performance (kW) TTA085A Condensing Unit Only (SI)

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|------|------|------|------|------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1063 | 1095 | 1129 | 1165 | 1203 | 1244 |
| | Capacity (kW) | 24.0 | 26.5 | 29.1 | 31.8 | 34.7 | 37.6 |
| | OD Unit Power (kW) | 4.93 | 5.03 | 5.13 | 5.24 | 5.36 | 5.49 |
| 23.9 | Head pressure (kPa) | 1229 | 1262 | 1297 | 1334 | 1374 | 1416 |
| | Capacity (kW) | 23.0 | 25.3 | 27.8 | 30.4 | 33.1 | 35.9 |
| | OD Unit Power (kW) | 5.41 | 5.51 | 5.63 | 5.75 | 5.88 | 6.02 |
| 29.4 | Head pressure (kPa) | 1412 | 1446 | 1482 | 1521 | 1563 | 1607 |
| | Capacity (kW) | 21.9 | 24.1 | 26.4 | 28.9 | 31.5 | 34.2 |
| | OD Unit Power (kW) | 6.00 | 6.11 | 6.23 | 6.36 | 6.49 | 6.64 |
| 35.0 | Head pressure (kPa) | 1612 | 1648 | 1686 | 1727 | 1771 | 1817 |
| | Capacity (kW) | 20.7 | 22.8 | 25.0 | 27.4 | 29.9 | 32.5 |
| | OD Unit Power (kW) | 6.69 | 6.80 | 6.93 | 7.07 | 7.22 | 7.37 |
| 40.6 | Head pressure (kPa) | 1830 | 1869 | 1910 | 1953 | 1999 | 2047 |
| | Capacity (kW) | 19.4 | 21.5 | 23.6 | 25.9 | 28.3 | 30.8 |
| | OD Unit Power (kW) | 7.48 | 7.61 | 7.74 | 7.89 | 8.04 | 8.20 |
| 46.1 | Head pressure (kPa) | 2067 | 2109 | 2153 | 2199 | 2246 | 2297 |
| | Capacity (kW) | 18.1 | 20.1 | 22.2 | 24.4 | 26.6 | 29.0 |
| | OD Unit Power (kW) | 8.37 | 8.51 | 8.66 | 8.81 | 8.97 | 9.13 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.

Performance Data

Condensing Unit

Table PD-18 — Cooling Performance (MBh) TTA100A Condensing Unit Only (I-P)

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 166 | 172 | 178 | 185 | 192 | 200 |
| | Cap. Btuh/1000 | 101.6 | 111.9 | 122.6 | 133.8 | 145.5 | 157.6 |
| | OD Unit KW | 6.30 | 6.46 | 6.63 | 6.81 | 7.01 | 7.22 |
| 75 | Head press PSIG | 191 | 197 | 203 | 210 | 218 | 226 |
| | Cap. Btuh/1000 | 97.1 | 106.8 | 116.9 | 127.6 | 138.7 | 150.3 |
| | OD Unit KW | 6.95 | 7.12 | 7.30 | 7.50 | 7.71 | 7.94 |
| 85 | Head press PSIG | 218 | 224 | 231 | 238 | 246 | 254 |
| | Cap. Btuh/1000 | 92.3 | 101.4 | 111.1 | 121.3 | 131.9 | 143.0 |
| | OD Unit KW | 7.73 | 7.91 | 8.11 | 8.32 | 8.55 | 8.79 |
| 95 | Head press PSIG | 248 | 254 | 261 | 269 | 277 | 286 |
| | Cap. Btuh/1000 | 87.1 | 95.8 | 105.1 | 114.8 | 125.0 | 135.7 |
| | OD Unit KW | 8.64 | 8.83 | 9.04 | 9.27 | 9.50 | 9.75 |
| 105 | Head press PSIG | 280 | 287 | 294 | 302 | 311 | 320 |
| | Cap. Btuh/1000 | 81.6 | 90.1 | 99.0 | 108.4 | 118.1 | 128.3 |
| | OD Unit KW | 9.66 | 9.87 | 10.10 | 10.34 | 10.59 | 10.84 |
| 115 | Head press PSIG | 315 | 322 | 330 | 339 | 348 | 357 |
| | Cap. Btuh/1000 | 76.0 | 84.1 | 92.8 | 101.8 | 111.1 | 120.8 |
| | OD Unit KW | 10.80 | 11.04 | 11.28 | 11.54 | 11.79 | 12.05 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-18 — Cooling Performance (kW) TTA100A Condensing Unit Only (SI)

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1146 | 1187 | 1230 | 1276 | 1326 | 1378 |
| | Capacity (kW) | 29.8 | 32.8 | 35.9 | 39.2 | 42.6 | 46.1 |
| | OD Unit Power (kW) | 6.30 | 6.46 | 6.63 | 6.81 | 7.01 | 7.22 |
| 23.9 | Head pressure (kPa) | 1316 | 1358 | 1402 | 1450 | 1501 | 1556 |
| | Capacity (kW) | 28.4 | 31.3 | 34.2 | 37.4 | 40.6 | 44.0 |
| | OD Unit Power (kW) | 6.95 | 7.12 | 7.30 | 7.50 | 7.71 | 7.94 |
| 29.4 | Head pressure (kPa) | 1502 | 1546 | 1593 | 1643 | 1696 | 1753 |
| | Capacity (kW) | 27.0 | 29.7 | 32.5 | 35.5 | 38.6 | 41.9 |
| | OD Unit Power (kW) | 7.73 | 7.91 | 8.11 | 8.32 | 8.55 | 8.79 |
| 35.0 | Head pressure (kPa) | 1707 | 1753 | 1802 | 1854 | 1910 | 1969 |
| | Capacity (kW) | 25.5 | 28.1 | 30.8 | 33.6 | 36.6 | 39.7 |
| | OD Unit Power (kW) | 8.64 | 8.83 | 9.04 | 9.27 | 9.50 | 9.75 |
| 40.6 | Head pressure (kPa) | 1929 | 1977 | 2030 | 2085 | 2144 | 2205 |
| | Capacity (kW) | 23.9 | 26.4 | 29.0 | 31.7 | 34.6 | 37.6 |
| | OD Unit Power (kW) | 9.66 | 9.87 | 10.10 | 10.34 | 10.59 | 10.84 |
| 46.1 | Head pressure (kPa) | 2169 | 2221 | 2277 | 2335 | 2397 | 2461 |
| | Capacity (kW) | 22.2 | 24.6 | 27.2 | 29.8 | 32.5 | 35.4 |
| | OD Unit Power (kW) | 10.80 | 11.04 | 11.28 | 11.54 | 11.79 | 12.05 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Condensing Unit

Table PD-19 — Cooling Performance (MBh) TTA100B Condensing Unit Only (I-P)

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 159 | 163 | 169 | 174 | 180 | 186 |
| | Cap. Btuh/1000 | 99.0 | 108.9 | 119.2 | 130.1 | 141.5 | 153.4 |
| | OD Unit KW | 6.08 | 6.30 | 6.54 | 6.81 | 7.10 | 7.43 |
| 75 | Head press PSIG | 184 | 189 | 194 | 200 | 207 | 214 |
| | Cap. Btuh/1000 | 94.4 | 103.9 | 114.0 | 124.5 | 135.5 | 147.1 |
| | OD Unit KW | 6.66 | 6.90 | 7.16 | 7.45 | 7.77 | 8.11 |
| 85 | Head press PSIG | 211 | 217 | 223 | 229 | 236 | 243 |
| | Cap. Btuh/1000 | 89.6 | 98.8 | 108.6 | 118.7 | 129.4 | 140.5 |
| | OD Unit KW | 7.35 | 7.60 | 7.88 | 8.19 | 8.52 | 8.89 |
| 95 | Head press PSIG | 241 | 247 | 254 | 261 | 268 | 276 |
| | Cap. Btuh/1000 | 84.8 | 93.7 | 103.0 | 112.8 | 123.1 | 133.7 |
| | OD Unit KW | 8.16 | 8.42 | 8.71 | 9.03 | 9.37 | 9.75 |
| 105 | Head press PSIG | 274 | 281 | 288 | 295 | 303 | 311 |
| | Cap. Btuh/1000 | 79.8 | 88.4 | 97.4 | 106.8 | 116.5 | 126.6 |
| | OD Unit KW | 9.08 | 9.34 | 9.64 | 9.96 | 10.31 | 10.68 |
| 115 | Head press PSIG | 310 | 317 | 324 | 332 | 340 | 348 |
| | Cap. Btuh/1000 | 74.8 | 83.1 | 91.6 | 100.6 | 109.8 | 119.3 |
| | OD Unit KW | 10.10 | 10.37 | 10.66 | 10.98 | 11.33 | 11.70 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-19 — Cooling Performance (kW) TTA100B Condensing Unit Only (SI)

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1094 | 1127 | 1163 | 1201 | 1241 | 1285 |
| | Capacity (kW) | 29.0 | 31.9 | 34.9 | 38.1 | 41.4 | 44.9 |
| | OD Unit Power (kW) | 6.08 | 6.30 | 6.54 | 6.81 | 7.10 | 7.43 |
| 23.9 | Head pressure (kPa) | 1266 | 1302 | 1341 | 1382 | 1426 | 1473 |
| | Capacity (kW) | 27.6 | 30.4 | 33.4 | 36.5 | 39.7 | 43.1 |
| | OD Unit Power (kW) | 6.66 | 6.90 | 7.16 | 7.45 | 7.77 | 8.11 |
| 29.4 | Head pressure (kPa) | 1455 | 1494 | 1536 | 1581 | 1628 | 1678 |
| | Capacity (kW) | 26.2 | 28.9 | 31.8 | 34.8 | 37.9 | 41.1 |
| | OD Unit Power (kW) | 7.35 | 7.60 | 7.88 | 8.19 | 8.52 | 8.89 |
| 35.0 | Head pressure (kPa) | 1663 | 1705 | 1750 | 1798 | 1848 | 1901 |
| | Capacity (kW) | 24.8 | 27.4 | 30.2 | 33.0 | 36.0 | 39.1 |
| | OD Unit Power (kW) | 8.16 | 8.42 | 8.71 | 9.03 | 9.37 | 9.75 |
| 40.6 | Head pressure (kPa) | 1889 | 1934 | 1983 | 2033 | 2087 | 2142 |
| | Capacity (kW) | 23.4 | 25.9 | 28.5 | 31.3 | 34.1 | 37.1 |
| | OD Unit Power (kW) | 9.08 | 9.34 | 9.64 | 9.96 | 10.31 | 10.68 |
| 46.1 | Head pressure (kPa) | 2134 | 2183 | 2234 | 2288 | 2344 | 2402 |
| | Capacity (kW) | 21.9 | 24.3 | 26.8 | 29.5 | 32.2 | 34.9 |
| | OD Unit Power (kW) | 10.10 | 10.37 | 10.66 | 10.98 | 11.33 | 11.70 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.

Performance Data

Condensing Unit

Table PD-20 — Gross Cooling Capacities (MBh) - Both Compressors - (I-P)
TTA100C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 168.5 | 174.3 | 180.4 | 187.0 | 193.9 | 201.2 |
| | Cap. Btuh/1000 | 100.5 | 110.4 | 120.9 | 131.8 | 143.2 | 154.9 |
| | OD Unit KW | 6.3 | 6.5 | 6.8 | 7.1 | 7.4 | 7.8 |
| 75 | Head press PSIG | 192.9 | 198.9 | 205.3 | 212.2 | 219.3 | 226.8 |
| | Cap. Btuh/1000 | 95.7 | 105.3 | 115.5 | 126.0 | 136.9 | 148.0 |
| | OD Unit KW | 6.9 | 7.1 | 7.4 | 7.8 | 8.1 | 8.5 |
| 85 | Head press PSIG | 219.7 | 226.1 | 232.9 | 240.1 | 247.6 | 255.4 |
| | Cap. Btuh/1000 | 90.8 | 100.1 | 109.9 | 120.0 | 130.5 | 141.1 |
| | OD Unit KW | 7.6 | 7.9 | 8.2 | 8.5 | 8.8 | 9.2 |
| 95 | Head press PSIG | 249.5 | 256.3 | 263.4 | 270.9 | 278.7 | 286.8 |
| | Cap. Btuh/1000 | 85.9 | 94.9 | 104.2 | 113.9 | 123.9 | 133.9 |
| | OD Unit KW | 8.4 | 8.7 | 9.0 | 9.3 | 9.7 | 10.1 |
| 105 | Head press PSIG | 282.0 | 289.1 | 296.6 | 304.4 | 312.5 | 320.8 |
| | Cap. Btuh/1000 | 80.9 | 89.5 | 98.5 | 107.7 | 117.1 | 126.6 |
| | OD Unit KW | 9.3 | 9.6 | 9.9 | 10.2 | 10.6 | 11.0 |
| 115 | Head press PSIG | 317.4 | 324.9 | 332.7 | 340.7 | 349.0 | 357.6 |
| | Cap. Btuh/1000 | 75.8 | 84.1 | 92.6 | 101.3 | 110.2 | 119.1 |
| | OD Unit KW | 10.4 | 10.6 | 10.9 | 11.3 | 11.6 | 12.0 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-20 — Gross Cooling Capacities (kW) - Both Compressors - (SI)
TTA100C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1162 | 1202 | 1244 | 1289 | 1337 | 1387 |
| | Capacity (kW) | 29.4 | 32.3 | 35.4 | 38.6 | 41.9 | 45.4 |
| | OD Unit Power (kW) | 6.30 | 6.54 | 6.82 | 7.12 | 7.45 | 7.80 |
| 23.9 | Head pressure (kPa) | 1330 | 1372 | 1416 | 1463 | 1512 | 1564 |
| | Capacity (kW) | 28.0 | 30.8 | 33.8 | 36.9 | 40.1 | 43.3 |
| | OD Unit Power (kW) | 6.89 | 7.15 | 7.43 | 7.75 | 8.09 | 8.46 |
| 29.4 | Head pressure (kPa) | 1515 | 1559 | 1606 | 1656 | 1708 | 1761 |
| | Capacity (kW) | 26.6 | 29.3 | 32.2 | 35.1 | 38.2 | 41.3 |
| | OD Unit Power (kW) | 7.58 | 7.86 | 8.16 | 8.48 | 8.84 | 9.22 |
| 35.0 | Head pressure (kPa) | 1720 | 1767 | 1816 | 1868 | 1921 | 1977 |
| | Capacity (kW) | 25.2 | 27.8 | 30.5 | 33.4 | 36.3 | 39.2 |
| | OD Unit Power (kW) | 8.40 | 8.68 | 8.98 | 9.31 | 9.67 | 10.06 |
| 40.6 | Head pressure (kPa) | 1944 | 1994 | 2045 | 2099 | 2154 | 2212 |
| | Capacity (kW) | 23.7 | 26.2 | 28.8 | 31.5 | 34.3 | 37.1 |
| | OD Unit Power (kW) | 9.32 | 9.60 | 9.91 | 10.24 | 10.60 | 10.98 |
| 46.1 | Head pressure (kPa) | 2188 | 2240 | 2294 | 2349 | 2407 | 2466 |
| | Capacity (kW) | 22.2 | 24.6 | 27.1 | 29.7 | 32.3 | 34.9 |
| | OD Unit Power (kW) | 10.35 | 10.63 | 10.93 | 11.25 | 11.60 | 11.98 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Condensing Unit

Table PD-21 — Gross Cooling Capacities (MBh) - Single Compressor - (I-P)
TTA100C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 138.6 | 141.3 | 144.1 | 147.0 | 150.1 | 153.4 |
| | Cap. Btuh/1000 | 51.3 | 56.5 | 61.9 | 67.7 | 73.7 | 80.1 |
| | OD Unit KW | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.6 |
| 75 | Head press PSIG | 161.5 | 164.4 | 167.3 | 170.4 | 173.7 | 177.2 |
| | Cap. Btuh/1000 | 48.9 | 54.0 | 59.3 | 64.9 | 70.8 | 77.0 |
| | OD Unit KW | 3.4 | 3.4 | 3.5 | 3.7 | 3.8 | 3.9 |
| 85 | Head press PSIG | 186.8 | 189.9 | 193.0 | 196.3 | 199.8 | 203.4 |
| | Cap. Btuh/1000 | 46.5 | 51.4 | 56.6 | 62.1 | 67.8 | 73.8 |
| | OD Unit KW | 3.7 | 3.7 | 3.8 | 4.0 | 4.1 | 4.2 |
| 95 | Head press PSIG | 214.8 | 218.1 | 221.4 | 225.0 | 228.6 | 232.3 |
| | Cap. Btuh/1000 | 44.1 | 48.8 | 53.8 | 59.1 | 64.6 | 70.4 |
| | OD Unit KW | 4.0 | 4.1 | 4.2 | 4.3 | 4.4 | 4.6 |
| 105 | Head press PSIG | 245.6 | 249.1 | 252.7 | 256.4 | 260.2 | 264.2 |
| | Cap. Btuh/1000 | 41.6 | 46.1 | 51.0 | 56.1 | 61.4 | 66.8 |
| | OD Unit KW | 4.4 | 4.5 | 4.6 | 4.7 | 4.9 | 5.0 |
| 115 | Head press PSIG | 279.4 | 283.0 | 286.8 | 290.7 | 294.7 | 298.9 |
| | Cap. Btuh/1000 | 39.0 | 43.4 | 48.1 | 52.9 | 58.0 | 63.2 |
| | OD Unit KW | 4.9 | 5.0 | 5.1 | 5.2 | 5.3 | 5.5 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-21 — Gross Cooling Capacities (kW) - Single Compressor - (SI)
TTA100C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|------|------|------|------|------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 956 | 974 | 994 | 1014 | 1035 | 1057 |
| | Capacity (kW) | 15.0 | 16.5 | 18.1 | 19.8 | 21.6 | 23.4 |
| | OD Unit Power (kW) | 3.13 | 3.21 | 3.30 | 3.39 | 3.50 | 3.62 |
| 23.9 | Head pressure (kPa) | 1114 | 1133 | 1154 | 1175 | 1198 | 1222 |
| | Capacity (kW) | 14.3 | 15.8 | 17.4 | 19.0 | 20.7 | 22.6 |
| | OD Unit Power (kW) | 3.36 | 3.45 | 3.54 | 3.65 | 3.77 | 3.89 |
| 29.4 | Head pressure (kPa) | 1288 | 1309 | 1331 | 1354 | 1378 | 1402 |
| | Capacity (kW) | 13.6 | 15.1 | 16.6 | 18.2 | 19.9 | 21.6 |
| | OD Unit Power (kW) | 3.65 | 3.74 | 3.85 | 3.96 | 4.08 | 4.21 |
| 35.0 | Head pressure (kPa) | 1481 | 1504 | 1527 | 1551 | 1576 | 1602 |
| | Capacity (kW) | 12.9 | 14.3 | 15.8 | 17.3 | 18.9 | 20.6 |
| | OD Unit Power (kW) | 4.01 | 4.10 | 4.20 | 4.32 | 4.44 | 4.58 |
| 40.6 | Head pressure (kPa) | 1694 | 1717 | 1742 | 1768 | 1794 | 1821 |
| | Capacity (kW) | 12.2 | 13.5 | 14.9 | 16.4 | 18.0 | 19.6 |
| | OD Unit Power (kW) | 4.42 | 4.51 | 4.62 | 4.73 | 4.86 | 5.00 |
| 46.1 | Head pressure (kPa) | 1926 | 1951 | 1977 | 2004 | 2032 | 2061 |
| | Capacity (kW) | 11.4 | 12.7 | 14.1 | 15.5 | 17.0 | 18.5 |
| | OD Unit Power (kW) | 4.89 | 4.98 | 5.08 | 5.20 | 5.32 | 5.46 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.

Performance Data

Condensing Unit

Table PD-22 — Cooling Performance (MBh) TTA125B Condensing Unit Only (I-P)

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 175 | 181 | 187 | 193 | 200 | 207 |
| | Cap. Btuh/1000 | 116.6 | 128.0 | 139.9 | 152.2 | 164.9 | 178.1 |
| | OD Unit KW | 8.04 | 8.25 | 8.47 | 8.70 | 8.95 | 9.20 |
| 75 | Head press PSIG | 201 | 207 | 214 | 221 | 228 | 235 |
| | Cap. Btuh/1000 | 111.2 | 122.1 | 133.4 | 145.2 | 157.5 | 170.0 |
| | OD Unit KW | 8.83 | 9.06 | 9.29 | 9.53 | 9.79 | 10.06 |
| 85 | Head press PSIG | 230 | 237 | 244 | 251 | 259 | 267 |
| | Cap. Btuh/1000 | 105.6 | 116.0 | 126.9 | 138.1 | 149.8 | 161.8 |
| | OD Unit KW | 9.73 | 9.97 | 10.22 | 10.48 | 10.75 | 11.02 |
| 95 | Head press PSIG | 262 | 269 | 276 | 284 | 292 | 300 |
| | Cap. Btuh/1000 | 99.9 | 109.7 | 120.0 | 130.8 | 141.8 | 153.2 |
| | OD Unit KW | 10.73 | 10.98 | 11.25 | 11.52 | 11.80 | 12.09 |
| 105 | Head press PSIG | 296 | 304 | 311 | 320 | 328 | 337 |
| | Cap. Btuh/1000 | 94.0 | 103.2 | 113.0 | 123.1 | 133.6 | 144.5 |
| | OD Unit KW | 11.83 | 12.09 | 12.37 | 12.66 | 12.95 | 13.26 |
| 115 | Head press PSIG | 334 | 341 | 349 | 358 | 367 | 376 |
| | Cap. Btuh/1000 | 87.9 | 96.6 | 105.7 | 115.2 | 125.2 | 135.5 |
| | OD Unit KW | 13.02 | 13.30 | 13.59 | 13.89 | 14.20 | 14.52 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-22 — Cooling Performance (kW) TTA125B Condensing Unit Only (SI)

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1205 | 1245 | 1287 | 1331 | 1377 | 1425 |
| | Capacity (kW) | 34.1 | 37.5 | 41.0 | 44.6 | 48.3 | 52.1 |
| | OD Unit Power (kW) | 8.04 | 8.25 | 8.47 | 8.70 | 8.95 | 9.20 |
| 23.9 | Head pressure (kPa) | 1387 | 1430 | 1474 | 1521 | 1571 | 1623 |
| | Capacity (kW) | 32.6 | 35.8 | 39.1 | 42.5 | 46.1 | 49.8 |
| | OD Unit Power (kW) | 8.83 | 9.06 | 9.29 | 9.53 | 9.79 | 10.06 |
| 29.4 | Head pressure (kPa) | 1587 | 1633 | 1681 | 1731 | 1783 | 1838 |
| | Capacity (kW) | 30.9 | 34.0 | 37.2 | 40.4 | 43.9 | 47.4 |
| | OD Unit Power (kW) | 9.73 | 9.97 | 10.22 | 10.48 | 10.75 | 11.02 |
| 35.0 | Head pressure (kPa) | 1806 | 1855 | 1905 | 1958 | 2013 | 2071 |
| | Capacity (kW) | 29.2 | 32.1 | 35.2 | 38.3 | 41.5 | 44.9 |
| | OD Unit Power (kW) | 10.73 | 10.98 | 11.25 | 11.52 | 11.80 | 12.09 |
| 40.6 | Head pressure (kPa) | 2044 | 2095 | 2148 | 2203 | 2261 | 2322 |
| | Capacity (kW) | 27.5 | 30.2 | 33.1 | 36.0 | 39.1 | 42.3 |
| | OD Unit Power (kW) | 11.83 | 12.09 | 12.37 | 12.66 | 12.95 | 13.26 |
| 46.1 | Head pressure (kPa) | 2301 | 2354 | 2409 | 2466 | 2527 | 2591 |
| | Capacity (kW) | 25.7 | 28.3 | 30.9 | 33.7 | 36.7 | 39.7 |
| | OD Unit Power (kW) | 13.02 | 13.30 | 13.59 | 13.89 | 14.20 | 14.52 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Condensing Unit

Table PD-23 — Cooling Performance (MBh) TTA155B Condensing Unit Only (I-P)

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 171 | 178 | 185 | 192 | 200 | 208 |
| | Cap. Btuh/1000 | 144.5 | 159.5 | 175.1 | 191.3 | 207.8 | 225.0 |
| | OD Unit KW | 9.84 | 10.10 | 10.37 | 10.67 | 11.00 | 11.35 |
| 75 | Head press PSIG | 197 | 204 | 211 | 218 | 227 | 235 |
| | Cap. Btuh/1000 | 140.1 | 154.4 | 169.2 | 184.4 | 200.2 | 216.4 |
| | OD Unit KW | 10.85 | 11.13 | 11.43 | 11.74 | 12.09 | 12.45 |
| 85 | Head press PSIG | 225 | 232 | 239 | 247 | 256 | 265 |
| | Cap. Btuh/1000 | 134.4 | 148.0 | 162.0 | 176.4 | 191.4 | 206.7 |
| | OD Unit KW | 12.02 | 12.32 | 12.64 | 12.97 | 13.32 | 13.70 |
| 95 | Head press PSIG | 255 | 263 | 270 | 278 | 287 | 297 |
| | Cap. Btuh/1000 | 127.6 | 140.5 | 153.7 | 167.3 | 181.5 | 196.1 |
| | OD Unit KW | 13.38 | 13.68 | 14.00 | 14.33 | 14.70 | 15.08 |
| 105 | Head press PSIG | 288 | 296 | 303 | 312 | 321 | 331 |
| | Cap. Btuh/1000 | 119.9 | 132.0 | 144.4 | 157.3 | 170.7 | 184.6 |
| | OD Unit KW | 14.89 | 15.19 | 15.50 | 15.83 | 16.19 | 16.58 |
| 115 | Head press PSIG | 323 | 331 | 339 | 347 | 357 | 367 |
| | Cap. Btuh/1000 | 111.3 | 122.6 | 134.3 | 146.4 | 159.1 | 172.4 |
| | OD Unit KW | 16.56 | 16.84 | 17.14 | 17.45 | 17.81 | 18.20 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-23 — Cooling Performance (kW) TTA155B Condensing Unit Only (SI)

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1180 | 1225 | 1273 | 1324 | 1378 | 1436 |
| | Capacity (kW) | 42.3 | 46.7 | 51.3 | 56.0 | 60.8 | 65.9 |
| | OD Unit Power (kW) | 9.84 | 10.10 | 10.37 | 10.67 | 11.00 | 11.35 |
| 23.9 | Head pressure (kPa) | 1357 | 1404 | 1454 | 1506 | 1563 | 1623 |
| | Capacity (kW) | 41.0 | 45.2 | 49.5 | 54.0 | 58.6 | 63.4 |
| | OD Unit Power (kW) | 10.85 | 11.13 | 11.43 | 11.74 | 12.09 | 12.45 |
| 29.4 | Head pressure (kPa) | 1550 | 1599 | 1651 | 1705 | 1764 | 1826 |
| | Capacity (kW) | 39.4 | 43.3 | 47.4 | 51.7 | 56.0 | 60.5 |
| | OD Unit Power (kW) | 12.02 | 12.32 | 12.64 | 12.97 | 13.32 | 13.70 |
| 35.0 | Head pressure (kPa) | 1760 | 1811 | 1864 | 1920 | 1981 | 2045 |
| | Capacity (kW) | 37.4 | 41.1 | 45.0 | 49.0 | 53.1 | 57.4 |
| | OD Unit Power (kW) | 13.38 | 13.68 | 14.00 | 14.33 | 14.70 | 15.08 |
| 40.6 | Head pressure (kPa) | 1986 | 2038 | 2093 | 2150 | 2213 | 2280 |
| | Capacity (kW) | 35.1 | 38.6 | 42.3 | 46.0 | 50.0 | 54.1 |
| | OD Unit Power (kW) | 14.89 | 15.19 | 15.50 | 15.83 | 16.19 | 16.58 |
| 46.1 | Head pressure (kPa) | 2228 | 2282 | 2337 | 2396 | 2461 | 2530 |
| | Capacity (kW) | 32.6 | 35.9 | 39.3 | 42.9 | 46.6 | 50.5 |
| | OD Unit Power (kW) | 16.56 | 16.84 | 17.14 | 17.45 | 17.81 | 18.20 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.

Performance Data

Condensing Unit

Table PD-24 — Gross Cooling Capacities (MBh) - Both Compressors - (I-P)
TTA155C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|------------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press. PSIG | 169.8 | 176.2 | 183.0 | 190.1 | 197.8 | 206.0 |
| | Cap. Btuh/1000 | 144.3 | 159.3 | 175.0 | 191.1 | 207.7 | 224.9 |
| | OD Unit KW | 9.8 | 10.0 | 10.3 | 10.6 | 10.9 | 11.3 |
| 75 | Head press. PSIG | 195.5 | 202.2 | 209.2 | 216.8 | 224.9 | 233.4 |
| | Cap. Btuh/1000 | 140.0 | 154.3 | 169.1 | 184.4 | 200.2 | 216.4 |
| | OD Unit KW | 10.8 | 11.1 | 11.4 | 11.7 | 12.0 | 12.4 |
| 85 | Head press. PSIG | 223.5 | 230.5 | 237.9 | 245.9 | 254.3 | 263.0 |
| | Cap. Btuh/1000 | 134.2 | 147.9 | 161.9 | 176.5 | 191.4 | 206.8 |
| | OD Unit KW | 12.0 | 12.3 | 12.6 | 12.9 | 13.3 | 13.6 |
| 95 | Head press. PSIG | 253.9 | 261.2 | 269.0 | 277.2 | 285.9 | 294.9 |
| | Cap. Btuh/1000 | 127.5 | 140.3 | 153.7 | 167.4 | 181.6 | 196.2 |
| | OD Unit KW | 13.3 | 13.6 | 13.9 | 14.3 | 14.6 | 15.0 |
| 105 | Head press. PSIG | 286.6 | 294.1 | 302.2 | 310.8 | 319.8 | 329.0 |
| | Cap. Btuh/1000 | 119.7 | 131.8 | 144.3 | 157.3 | 170.8 | 184.6 |
| | OD Unit KW | 14.8 | 15.1 | 15.4 | 15.8 | 16.1 | 16.5 |
| 115 | Head press. PSIG | 321.6 | 329.3 | 337.7 | 346.5 | 355.9 | 365.5 |
| | Cap. Btuh/1000 | 111.1 | 122.4 | 134.2 | 146.5 | 159.2 | 172.4 |
| | OD Unit KW | 16.5 | 16.8 | 17.1 | 17.4 | 17.8 | 18.1 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-24 — Gross Cooling Capacities (kW) - Both Compressors - (SI)
TTA155C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1171 | 1215 | 1262 | 1311 | 1364 | 1421 |
| | Capacity (kW) | 42.3 | 46.6 | 51.2 | 56.0 | 60.8 | 65.9 |
| | OD Unit Power (kW) | 9.79 | 10.04 | 10.31 | 10.60 | 10.92 | 11.26 |
| 23.9 | Head pressure (kPa) | 1348 | 1394 | 1443 | 1495 | 1551 | 1609 |
| | Capacity (kW) | 41.0 | 45.2 | 49.5 | 54.0 | 58.6 | 63.4 |
| | OD Unit Power (kW) | 10.79 | 11.07 | 11.36 | 11.68 | 12.02 | 12.37 |
| 29.4 | Head pressure (kPa) | 1541 | 1589 | 1640 | 1695 | 1753 | 1813 |
| | Capacity (kW) | 39.3 | 43.3 | 47.4 | 51.7 | 56.1 | 60.5 |
| | OD Unit Power (kW) | 11.97 | 12.26 | 12.57 | 12.91 | 13.26 | 13.62 |
| 35.0 | Head pressure (kPa) | 1751 | 1801 | 1854 | 1911 | 1971 | 2034 |
| | Capacity (kW) | 37.3 | 41.1 | 45.0 | 49.0 | 53.2 | 57.4 |
| | OD Unit Power (kW) | 13.32 | 13.62 | 13.94 | 14.28 | 14.63 | 15.01 |
| 40.6 | Head pressure (kPa) | 1976 | 2028 | 2084 | 2143 | 2205 | 2269 |
| | Capacity (kW) | 35.0 | 38.6 | 42.3 | 46.1 | 50.0 | 54.0 |
| | OD Unit Power (kW) | 14.83 | 15.12 | 15.44 | 15.78 | 16.14 | 16.51 |
| 46.1 | Head pressure (kPa) | 2217 | 2270 | 2328 | 2389 | 2454 | 2520 |
| | Capacity (kW) | 32.5 | 35.8 | 39.3 | 42.9 | 46.6 | 50.5 |
| | OD Unit Power (kW) | 16.49 | 16.77 | 17.08 | 17.41 | 17.77 | 18.14 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Condensing Unit

Table PD-25 — Cooling Performance (MBh) - Single Compressor - (I-P)
TTA155C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °F | | | | | |
|---------|------------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press. PSIG | 139.0 | 141.9 | 145.1 | 148.5 | 152.1 | 155.9 |
| | Cap. Btuh/1000 | 71.8 | 79.5 | 87.9 | 96.8 | 106.2 | 116.1 |
| | OD Unit KW | 4.9 | 4.9 | 5.0 | 5.1 | 5.1 | 5.2 |
| 75 | Head press. PSIG | 163.0 | 166.2 | 169.6 | 173.1 | 176.9 | 180.8 |
| | Cap. Btuh/1000 | 70.8 | 78.4 | 86.5 | 95.1 | 104.0 | 113.3 |
| | OD Unit KW | 5.3 | 5.3 | 5.4 | 5.5 | 5.6 | 5.7 |
| 85 | Head press. PSIG | 189.4 | 192.8 | 196.4 | 200.1 | 204.0 | 208.0 |
| | Cap. Btuh/1000 | 68.9 | 76.4 | 84.2 | 92.4 | 100.9 | 109.6 |
| | OD Unit KW | 5.8 | 5.9 | 5.9 | 6.0 | 6.1 | 6.2 |
| 95 | Head press. PSIG | 218.1 | 221.8 | 225.6 | 229.5 | 233.6 | 237.8 |
| | Cap. Btuh/1000 | 66.3 | 73.5 | 81.0 | 88.8 | 96.9 | 105.3 |
| | OD Unit KW | 6.4 | 6.5 | 6.5 | 6.6 | 6.7 | 6.8 |
| 105 | Head press. PSIG | 249.6 | 253.5 | 257.5 | 261.6 | 265.9 | 270.3 |
| | Cap. Btuh/1000 | 63.0 | 69.9 | 77.1 | 84.5 | 92.3 | 100.3 |
| | OD Unit KW | 7.1 | 7.2 | 7.2 | 7.3 | 7.4 | 7.5 |
| 115 | Head press. PSIG | 283.6 | 287.8 | 292.0 | 296.3 | 300.8 | 305.5 |
| | Cap. Btuh/1000 | 59.1 | 65.6 | 72.5 | 79.6 | 87.0 | 94.7 |
| | OD Unit KW | 7.9 | 7.9 | 8.0 | 8.1 | 8.2 | 8.2 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-25 — Cooling Performance (kW) - Single Compressor - (SI)
TTA155C Condensing Unit Only

| OD Temp | | Suction Reference Temperature °C | | | | | |
|---------|---------------------|----------------------------------|------|------|------|------|------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 959 | 979 | 1000 | 1024 | 1049 | 1075 |
| | Capacity (kW) | 21.0 | 23.3 | 25.7 | 28.3 | 31.1 | 34.0 |
| | OD Unit Power (kW) | 4.89 | 4.93 | 4.99 | 5.06 | 5.13 | 5.21 |
| 23.9 | Head pressure (kPa) | 1124 | 1146 | 1169 | 1194 | 1220 | 1246 |
| | Capacity (kW) | 20.7 | 23.0 | 25.3 | 27.8 | 30.5 | 33.2 |
| | OD Unit Power (kW) | 5.29 | 5.35 | 5.42 | 5.49 | 5.57 | 5.66 |
| 29.4 | Head pressure (kPa) | 1306 | 1329 | 1354 | 1380 | 1406 | 1434 |
| | Capacity (kW) | 20.2 | 22.4 | 24.7 | 27.0 | 29.5 | 32.1 |
| | OD Unit Power (kW) | 5.79 | 5.86 | 5.93 | 6.01 | 6.10 | 6.18 |
| 35.0 | Head pressure (kPa) | 1504 | 1529 | 1555 | 1583 | 1611 | 1640 |
| | Capacity (kW) | 19.4 | 21.5 | 23.7 | 26.0 | 28.4 | 30.8 |
| | OD Unit Power (kW) | 6.38 | 6.46 | 6.54 | 6.62 | 6.70 | 6.79 |
| 40.6 | Head pressure (kPa) | 1721 | 1748 | 1775 | 1804 | 1833 | 1864 |
| | Capacity (kW) | 18.4 | 20.5 | 22.6 | 24.7 | 27.0 | 29.4 |
| | OD Unit Power (kW) | 7.08 | 7.15 | 7.23 | 7.31 | 7.39 | 7.48 |
| 46.1 | Head pressure (kPa) | 1956 | 1984 | 2013 | 2043 | 2074 | 2107 |
| | Capacity (kW) | 17.3 | 19.2 | 21.2 | 23.3 | 25.5 | 27.7 |
| | OD Unit Power (kW) | 7.86 | 7.93 | 8.00 | 8.08 | 8.16 | 8.25 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.

Performance Data

Condensing Unit

Table PD-26 — Cooling Capacities (MBh) TTA200B Condensing Unit Only (I-P)

| ODTemp | | Suction Reference Temperature °F | | | | | |
|--------|-----------------|----------------------------------|-------|-------|-------|-------|-------|
| °F | | 30 | 35 | 40 | 45 | 50 | 55 |
| 65 | Head press PSIG | 168 | 174 | 180 | 186 | 193 | 200 |
| | Cap. Btuh/1000 | 198.0 | 217.3 | 237.4 | 258.3 | 280.0 | 302.5 |
| | OD Unit KW | 12.47 | 12.77 | 13.08 | 13.42 | 13.79 | 14.18 |
| 75 | Head press PSIG | 194 | 200 | 206 | 213 | 220 | 227 |
| | Cap. Btuh/1000 | 188.9 | 207.0 | 226.1 | 245.9 | 266.6 | 288.2 |
| | OD Unit KW | 13.83 | 14.16 | 14.50 | 14.88 | 15.28 | 15.71 |
| 85 | Head press PSIG | 222 | 228 | 235 | 242 | 249 | 257 |
| | Cap. Btuh/1000 | 179.1 | 196.3 | 214.4 | 233.4 | 253.2 | 273.7 |
| | OD Unit KW | 15.45 | 15.80 | 16.19 | 16.59 | 17.03 | 17.48 |
| 95 | Head press PSIG | 253 | 259 | 266 | 274 | 282 | 290 |
| | Cap. Btuh/1000 | 168.7 | 185.1 | 202.5 | 220.6 | 239.6 | 259.2 |
| | OD Unit KW | 17.31 | 17.70 | 18.12 | 18.56 | 19.02 | 19.50 |
| 105 | Head press PSIG | 286 | 293 | 301 | 309 | 317 | 326 |
| | Cap. Btuh/1000 | 157.8 | 173.7 | 190.3 | 207.7 | 225.9 | 244.6 |
| | OD Unit KW | 19.42 | 19.85 | 20.31 | 20.78 | 21.26 | 21.75 |
| 115 | Head press PSIG | 321 | 329 | 337 | 346 | 355 | 364 |
| | Cap. Btuh/1000 | 146.5 | 161.9 | 177.9 | 194.7 | 212.0 | 229.8 |
| | OD Unit KW | 21.75 | 22.23 | 22.73 | 23.23 | 23.74 | 24.23 |

Performance Data Calculated at 15 deg. subcooling and 15 deg. superheat.

Table PD-26 — Cooling Capacities (MBh) TTA200B Condensing Unit Only (SI)

| ODTemp | | Suction Reference Temperature °C | | | | | |
|--------|---------------------|----------------------------------|-------|-------|-------|-------|-------|
| °C | | -1.1 | 1.7 | 4.4 | 7.2 | 10.0 | 12.8 |
| 18.3 | Head pressure (kPa) | 1159 | 1198 | 1239 | 1282 | 1327 | 1376 |
| | Capacity (kW) | 58.0 | 63.6 | 69.5 | 75.6 | 82.0 | 88.6 |
| | OD Unit Power (kW) | 12.47 | 12.77 | 13.08 | 13.42 | 13.79 | 14.18 |
| 23.9 | Head pressure (kPa) | 1336 | 1377 | 1420 | 1466 | 1514 | 1565 |
| | Capacity (kW) | 55.3 | 60.6 | 66.2 | 72.0 | 78.1 | 84.4 |
| | OD Unit Power (kW) | 13.83 | 14.16 | 14.50 | 14.88 | 15.28 | 15.71 |
| 29.4 | Head pressure (kPa) | 1530 | 1573 | 1619 | 1668 | 1719 | 1773 |
| | Capacity (kW) | 52.4 | 57.5 | 62.8 | 68.3 | 74.1 | 80.1 |
| | OD Unit Power (kW) | 15.45 | 15.80 | 16.19 | 16.59 | 17.03 | 17.48 |
| 35.0 | Head pressure (kPa) | 1741 | 1788 | 1836 | 1888 | 1943 | 2000 |
| | Capacity (kW) | 49.4 | 54.2 | 59.3 | 64.6 | 70.1 | 75.9 |
| | OD Unit Power (kW) | 17.31 | 17.70 | 18.12 | 18.56 | 19.02 | 19.50 |
| 40.6 | Head pressure (kPa) | 1970 | 2020 | 2072 | 2128 | 2185 | 2246 |
| | Capacity (kW) | 46.2 | 50.8 | 55.7 | 60.8 | 66.1 | 71.6 |
| | OD Unit Power (kW) | 19.42 | 19.85 | 20.31 | 20.78 | 21.26 | 21.75 |
| 46.1 | Head pressure (kPa) | 2216 | 2270 | 2327 | 2386 | 2448 | 2511 |
| | Capacity (kW) | 42.9 | 47.4 | 52.1 | 57.0 | 62.1 | 67.3 |
| | OD Unit Power (kW) | 21.75 | 22.23 | 22.73 | 23.23 | 23.74 | 24.23 |

Performance Data Calculated at 8.3 deg. subcooling and 8.3 deg. superheat.



Performance Data

Air Handler

Table PD-27— Evaporator Fan Performance — TWE050A (I-P)

| External Static Pressure (Inches of Water Column) | | | | | | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|-------|------|-------|------|
| CFM | .10" | | .20" | | .30" | | .40" | | .50" | | .60" | | .70" | | .80" | | .90" | | 1.00" | | 1.10" | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 1400 | — | — | — | — | 646 | 0.37 | 698 | 0.42 | 751 | 0.47 | 803 | 0.52 | 856 | 0.56 | 908 | 0.61 | 941 | 0.65 | 973 | 0.68 | 1006 | 0.71 |
| 1500 | — | — | 607 | 0.36 | 661 | 0.40 | 713 | 0.45 | 764 | 0.50 | 816 | 0.54 | 867 | 0.59 | 919 | 0.64 | 952 | 0.67 | 984 | 0.71 | — | — |
| 1600 | — | — | 625 | 0.38 | 676 | 0.43 | 727 | 0.48 | 778 | 0.52 | 828 | 0.57 | 879 | 0.62 | 930 | 0.67 | 963 | 0.70 | 995 | 0.74 | — | — |
| 1700 | 601 | 0.35 | 648 | 0.40 | 696 | 0.44 | 744 | 0.49 | 792 | 0.54 | 841 | 0.59 | 889 | 0.64 | 937 | 0.69 | 971 | 0.73 | 1005 | 0.77 | — | — |
| 1800 | 625 | 0.36 | 671 | 0.41 | 716 | 0.46 | 762 | 0.51 | 807 | 0.56 | 853 | 0.61 | 898 | 0.66 | 944 | 0.71 | 979 | 0.76 | — | — | — | — |
| 1900 | 642 | 0.40 | 687 | 0.45 | 731 | 0.50 | 776 | 0.55 | 820 | 0.60 | 865 | 0.66 | 909 | 0.71 | 951 | 0.75 | 987 | 0.80 | — | — | — | — |
| 2000 | 659 | 0.44 | 703 | 0.49 | 745 | 0.54 | 790 | 0.60 | 833 | 0.65 | 877 | 0.70 | 920 | 0.75 | 957 | 0.80 | 994 | 0.84 | — | — | — | — |
| 2100 | 674 | 0.48 | 722 | 0.54 | 770 | 0.60 | 817 | 0.65 | 857 | 0.70 | 897 | 0.75 | 936 | 0.80 | 973 | 0.85 | 1009 | 0.89 | — | — | — | — |
| 0.75 HP Standard Motor and Standard Static Drive | | | | | | | | | | | 1.0 HP Oversized Motor and High Static Drive | | | | | | | | | | | |

Notes:

1. Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-27— Evaporator Fan Performance — TWE050A (SI)

| External Static Pressure (Pascal) | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|------|-----|------|-----|------|-----|------|--|------|-----|------|-----|------|-----|------|------|------|------|------|------|------|
| m³/hr | 25 | | 50 | | 75 | | 100 | | 125 | | 150 | | 174 | | 199 | | 224 | | 249 | | 274 | |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW |
| 2379 | — | — | — | — | 646 | 0.28 | 698 | 0.31 | 751 | 0.35 | 803 | 0.39 | 856 | 0.42 | 908 | 0.45 | 941 | 0.48 | 973 | 0.51 | 1006 | 0.53 |
| 2549 | — | — | 607 | 0.27 | 661 | 0.30 | 713 | 0.34 | 764 | 0.37 | 816 | 0.40 | 867 | 0.44 | 919 | 0.48 | 952 | 0.50 | 984 | 0.53 | — | — |
| 2718 | — | — | 625 | 0.28 | 676 | 0.32 | 727 | 0.36 | 778 | 0.39 | 828 | 0.43 | 879 | 0.46 | 930 | 0.50 | 963 | 0.52 | 995 | 0.55 | — | — |
| 2888 | 601 | 0.26 | 648 | 0.30 | 696 | 0.33 | 744 | 0.37 | 792 | 0.40 | 841 | 0.44 | 889 | 0.48 | 937 | 0.51 | 971 | 0.54 | 1005 | 0.57 | — | — |
| 3058 | 625 | 0.27 | 671 | 0.31 | 716 | 0.34 | 762 | 0.38 | 807 | 0.42 | 853 | 0.45 | 898 | 0.49 | 944 | 0.53 | 979 | 0.57 | — | — | — | — |
| 3228 | 642 | 0.30 | 687 | 0.34 | 731 | 0.37 | 776 | 0.41 | 820 | 0.45 | 865 | 0.49 | 909 | 0.53 | 951 | 0.56 | 987 | 0.60 | — | — | — | — |
| 3398 | 659 | 0.33 | 703 | 0.37 | 745 | 0.40 | 790 | 0.45 | 833 | 0.48 | 877 | 0.52 | 920 | 0.56 | 957 | 0.60 | 994 | 0.63 | — | — | — | — |
| 3568 | 674 | 0.36 | 722 | 0.40 | 770 | 0.45 | 817 | 0.48 | 857 | 0.52 | 897 | 0.56 | 936 | 0.60 | 973 | 0.63 | 1009 | 0.66 | — | — | — | — |
| 0.56 kW Standard Motor and Standard Static Drive | | | | | | | | | 0.75 kW Oversized Motor and High Static Drive | | | | | | | | | | | | | |

Notes:

1. Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-28 — Blower Speeds — TWE050A

| Drive | Motor Drive Turns Open | | | | | | |
|-------------|------------------------|-----|-----|-----|-----|-----|------|
| | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Standard | N/A | 590 | 639 | 688 | 737 | 786 | 835 |
| High Static | N/A | 713 | 772 | 832 | 891 | 951 | 1009 |

Performance Data

Air Handler

Table PD-29— Evaporator Fan Performance TWE075A (I-P)

| External Static Pressure (In. Of Water Column) | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------------------------------------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|
| CFM | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | | 0.90 | | 1.00 | | 1.10 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2000 | — | — | 443 | 0.44 | 489 | 0.49 | 535 | 0.54 | 581 | 0.59 | 627 | 0.64 | 673 | 0.69 | 719 | 0.74 | 765 | 0.79 | 791 | 0.83 | 818 | 0.89 |
| 2125 | — | — | 453 | 0.46 | 499 | 0.52 | 546 | 0.57 | 592 | 0.63 | 638 | 0.68 | 684 | 0.74 | 730 | 0.79 | 771 | 0.85 | 798 | 0.90 | 825 | 0.96 |
| 2250 | — | — | 463 | 0.49 | 510 | 0.55 | 556 | 0.61 | 602 | 0.67 | 649 | 0.73 | 695 | 0.79 | 742 | 0.85 | 776 | 0.91 | 804 | 0.97 | 831 | 1.03 |
| 2375 | — | — | 473 | 0.51 | 520 | 0.57 | 567 | 0.64 | 613 | 0.70 | 660 | 0.77 | 706 | 0.83 | 753 | 0.90 | 782 | 0.97 | 810 | 1.03 | 838 | 1.10 |
| 2500 | 445 | 0.47 | 489 | 0.54 | 533 | 0.60 | 578 | 0.67 | 622 | 0.73 | 667 | 0.80 | 711 | 0.86 | 756 | 0.93 | 784 | 0.99 | 813 | 1.07 | 842 | 1.14 |
| 2625 | 464 | 0.50 | 506 | 0.57 | 548 | 0.63 | 589 | 0.69 | 631 | 0.76 | 672 | 0.82 | 714 | 0.88 | 757 | 0.95 | 786 | 1.01 | 815 | 1.09 | 844 | 1.17 |
| 2750 | 484 | 0.53 | 523 | 0.59 | 562 | 0.66 | 601 | 0.72 | 640 | 0.78 | 678 | 0.84 | 717 | 0.91 | 758 | 0.97 | 787 | 1.03 | 817 | 1.12 | 847 | 1.21 |
| 2875 | 504 | 0.56 | 540 | 0.62 | 576 | 0.68 | 612 | 0.74 | 648 | 0.81 | 684 | 0.87 | 720 | 0.93 | 759 | 0.99 | 789 | 1.05 | 819 | 1.15 | 850 | 1.24 |
| 3000 | 524 | 0.59 | 557 | 0.65 | 590 | 0.71 | 624 | 0.77 | 657 | 0.83 | 690 | 0.89 | 723 | 0.95 | 760 | 1.01 | 790 | 1.07 | 821 | 1.17 | 853 | 1.27 |
| 1.0 HP Standard Motor and Low Static Drive | | | | | | | 1.0 HP Standard Motor and Drive | | | | | | | 1.5 HP Oversized Motor and High Static Drive | | | | | | | | |

Notes:

- Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
- Tabulated brake horsepower is the motor shaft output required.
- Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-29 — Continued

| External Static Pressure (In. Of Water Column) | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|----------|
| CFM | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM BHP |
| 2000 | 844 | 0.96 | 871 | 1.02 | 897 | 1.09 | 924 | 1.15 | 950 1.21 |
| 2125 | 852 | 1.03 | 879 | 1.09 | 906 | 1.16 | 933 | 1.22 | — — |
| 2250 | 859 | 1.10 | 886 | 1.17 | 914 | 1.23 | 942 | 1.30 | — — |
| 2375 | 866 | 1.17 | 894 | 1.24 | 922 | 1.30 | 950 | 1.37 | — — |
| 2500 | 870 | 1.21 | 899 | 1.29 | 928 | 1.36 | — | — | — — |
| 2625 | 874 | 1.25 | 903 | 1.33 | 932 | 1.42 | — | — | — — |
| 2750 | 877 | 1.29 | 907 | 1.38 | 937 | 1.47 | — | — | — — |
| 2875 | 880 | 1.33 | 911 | 1.43 | 942 | 1.52 | — | — | — — |
| 3000 | 884 | 1.37 | 915 | 1.48 | 946 | 1.58 | — | — | — — |
| 1.5 HP Oversized Motor and High Static Drive | | | | | | | | | |

1.0 HP Standard Motor
and Drive

Table PD-29 — Evaporator Fan Performance TWE075A (SI)

| External Static Pressure (Pascal) | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|------|-----|------|-----|------|------------------------------------|------|-----|------|-----|------|-----|--|-----|------|-----|------|-----|------|-----|------|
| m³/hr | 25 | | 50 | | 75 | | 100 | | 125 | | 150 | | 174 | | 199 | | 224 | | 249 | | 274 | |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW |
| 3338 | — | — | 443 | 0.33 | 489 | 0.37 | 535 | 0.4 | 581 | 0.44 | 627 | 0.48 | 673 | 0.51 | 719 | 0.55 | 765 | 0.59 | 791 | 0.62 | 818 | 0.66 |
| 3547 | — | — | 453 | 0.34 | 499 | 0.39 | 546 | 0.43 | 592 | 0.47 | 638 | 0.51 | 684 | 0.55 | 730 | 0.59 | 771 | 0.63 | 798 | 0.67 | 825 | 0.72 |
| 3755 | — | — | 463 | 0.37 | 510 | 0.41 | 556 | 0.45 | 602 | 0.5 | 649 | 0.54 | 695 | 0.59 | 742 | 0.63 | 776 | 0.68 | 804 | 0.72 | 831 | 0.77 |
| 3964 | — | — | 473 | 0.38 | 520 | 0.43 | 567 | 0.48 | 613 | 0.52 | 660 | 0.57 | 706 | 0.62 | 753 | 0.67 | 782 | 0.72 | 810 | 0.77 | 838 | 0.82 |
| 4173 | 445 | 0.35 | 489 | 0.4 | 533 | 0.45 | 578 | 0.5 | 622 | 0.54 | 667 | 0.6 | 711 | 0.64 | 756 | 0.69 | 784 | 0.74 | 813 | 0.8 | 842 | 0.85 |
| 4381 | 464 | 0.37 | 506 | 0.43 | 548 | 0.47 | 589 | 0.51 | 631 | 0.57 | 672 | 0.61 | 714 | 0.66 | 757 | 0.71 | 786 | 0.75 | 815 | 0.81 | 844 | 0.87 |
| 4590 | 484 | 0.4 | 523 | 0.44 | 562 | 0.49 | 601 | 0.54 | 640 | 0.58 | 678 | 0.63 | 717 | 0.68 | 758 | 0.72 | 787 | 0.77 | 817 | 0.84 | 847 | 0.9 |
| 4798 | 504 | 0.42 | 540 | 0.46 | 576 | 0.51 | 612 | 0.55 | 648 | 0.6 | 684 | 0.65 | 720 | 0.69 | 759 | 0.74 | 789 | 0.78 | 819 | 0.86 | 850 | 0.92 |
| 5007 | 524 | 0.44 | 557 | 0.48 | 590 | 0.53 | 624 | 0.57 | 657 | 0.62 | 690 | 0.66 | 723 | 0.71 | 760 | 0.75 | 790 | 0.8 | 821 | 0.87 | 853 | 0.95 |
| .75 kW Standard Motor and Low Static Drive | | | | | | | .75 kW Standard Motor and Drive | | | | | | | 1.12 kW Oversized Motor and High Static Drive | | | | | | | | |

Notes:

- Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
- Tabulated brake horsepower is the motor shaft output required.
- Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-29 — Continued

| External Static Pressure (Pascal) | | | | | | | | | |
|---|-----|------|-----|------|-----|------|-----|------|---------|
| m³/hr | 299 | | 324 | | 349 | | 374 | | 398 |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM kW |
| 3338 | 844 | 0.72 | 871 | 0.76 | 897 | 0.81 | 924 | 0.86 | 950 0.9 |
| 3547 | 852 | 0.77 | 879 | 0.81 | 906 | 0.87 | 933 | 0.91 | — — |
| 3755 | 859 | 0.82 | 886 | 0.87 | 914 | 0.92 | 942 | 0.97 | — — |
| 3964 | 866 | 0.87 | 894 | 0.92 | 922 | 0.97 | 950 | 1.02 | — — |
| 4173 | 870 | 0.9 | 899 | 0.96 | 928 | 1.01 | — | — | — — |
| 4381 | 874 | 0.93 | 903 | 0.99 | 932 | 1.06 | — | — | — — |
| 4590 | 877 | 0.96 | 907 | 1.03 | 937 | 1.1 | — | — | — — |
| 4798 | 880 | 0.99 | 911 | 1.07 | 942 | 1.13 | — | — | — — |
| 5007 | 884 | 1.02 | 915 | 1.1 | 946 | 1.18 | — | — | — — |
| 1.12 kW Oversized Motor and High Static Drive | | | | | | | | | |

.75 kW Standard Motor
and Drive

Table PD-30 — Blower Speeds — TWE075A

| Motor Drive Turns Open | | | | | | | |
|------------------------|-----|-----|-----|-----|-----|-----|-----|
| Drive | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Standard | N/A | 600 | 650 | 700 | 750 | 800 | 850 |
| Low Static | N/A | 428 | 464 | 499 | 535 | 571 | 606 |
| High Static | N/A | 700 | 750 | 800 | 850 | 900 | 950 |



Performance Data

Air Handler

Table PD-31 — Evaporator Fan Performance TWE100A, TWE100B (I-P)

| External Static Pressure (In. Of Water Column) | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|------|------|------|--|
| CFM | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | | 0.90 | | 1.00 | | 1.20 | | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | |
| 1.5 HP Standard Motor and Low Static Drive | | | | | | | | | | | | | | | | | | | | | | | |
| 2600 | 460 | 0.32 | 493 | 0.39 | 527 | 0.47 | 565 | 0.55 | 603 | 0.63 | 641 | 0.71 | 679 | 0.79 | 717 | 0.87 | 744 | 0.94 | 772 | 1.01 | 826 | 1.16 | |
| 2775 | 473 | 0.37 | 506 | 0.45 | 540 | 0.53 | 576 | 0.61 | 613 | 0.69 | 649 | 0.77 | 686 | 0.85 | 723 | 0.93 | 748 | 1.00 | 775 | 1.07 | 830 | 1.20 | |
| 2950 | 487 | 0.43 | 519 | 0.50 | 552 | 0.58 | 587 | 0.67 | 623 | 0.75 | 658 | 0.83 | 693 | 0.91 | 728 | 0.99 | 751 | 1.06 | 779 | 1.12 | 833 | 1.25 | |
| 3125 | 501 | 0.49 | 532 | 0.56 | 565 | 0.64 | 599 | 0.72 | 632 | 0.81 | 666 | 0.89 | 700 | 0.97 | 734 | 1.05 | 755 | 1.11 | 783 | 1.18 | 737 | 1.30 | |
| 3300 | 520 | 0.58 | 548 | 0.65 | 581 | 0.73 | 613 | 0.81 | 644 | 0.89 | 677 | 0.98 | 710 | 1.06 | 740 | 1.13 | 759 | 1.19 | 787 | 1.25 | 841 | 1.37 | |
| 3475 | 541 | 0.69 | 568 | 0.76 | 600 | 0.84 | 631 | 0.93 | 658 | 1.00 | 691 | 1.08 | 721 | 1.16 | 746 | 1.21 | 764 | 1.28 | 793 | 1.34 | 846 | 1.48 | |
| 3650 | 562 | 0.82 | 588 | 0.88 | 618 | 0.97 | 648 | 1.05 | 671 | 1.11 | 703 | 1.19 | 732 | 1.27 | 753 | 1.31 | 772 | 1.38 | 801 | 1.45 | 853 | 1.59 | |
| 3825 | 582 | 0.96 | 608 | 1.03 | 637 | 1.11 | 666 | 1.20 | 685 | 1.26 | 711 | 1.31 | 739 | 1.38 | 763 | 1.44 | 787 | 1.51 | 815 | 1.58 | 862 | 1.74 | |
| 4000 | 602 | 1.11 | 628 | 1.17 | 656 | 1.26 | 683 | 1.35 | 698 | 1.40 | 720 | 1.43 | 747 | 1.50 | 773 | 1.58 | 801 | 1.64 | 829 | 1.71 | 872 | 1.89 | |
| 1.5 HP Standard Motor and Drive | | | | | | | | | | | | | | | | | | 2.0 HP Oversized Motor and High Static Drive | | | | | |

Notes:

1. Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.
4. Low Static Drive must be field supplied.

Table PD-31— Continued

| External Static Pressure (In. Of Water Column) | | | |
|--|-----------------|-----------------|--|
| CFM | 1.40 RPM BHP | 1.60 RPM BHP | |
| 2.0 HP Oversized Motor and High Static Drive | | | |
| 2600 | 881 1.30 | 936 1.45 | |
| 2775 | 884 1.36 | 938 1.51 | |
| 2960 | 886 1.41 | 939 1.57 | |
| 3125 | 889 1.47 | 941 1.64 | |
| 3300 | 892 1.54 | 945 1.73 | |
| 3475 | 897 1.63 | 950 1.85 | |
| 3650 | 902 1.73 | 955 1.99 | |
| 3825 | 912 1.89 | 960 2.18 | |
| 4000 | 922 2.04 | 965 2.30 | |

Table PD-31— Evaporator Fan Performance TWE0100A, TWE100B (SI)

| External Static Pressure (Pascal) | | | | | | | | | | | | | | | | | | | | | | |
|---|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|---|-----|------|-----|------|
| m³/hr | 25 | | 50 | | 75 | | 100 | | 125 | | 150 | | 174 | | 199 | | 224 | | 249 | | 299 | |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW |
| 1.12 kW Standard Motor and Low Static Drive | | | | | | | | | | | | | | | | | | | | | | |
| 4417 | 460 | 0.24 | 493 | 0.29 | 527 | 0.35 | 565 | 0.41 | 603 | 0.47 | 641 | 0.53 | 679 | 0.59 | 717 | 0.65 | 744 | 0.7 | 772 | 0.75 | 826 | 0.87 |
| 4715 | 473 | 0.28 | 506 | 0.34 | 540 | 0.4 | 576 | 0.45 | 613 | 0.51 | 649 | 0.57 | 686 | 0.63 | 723 | 0.69 | 748 | 0.75 | 775 | 0.8 | 830 | 0.89 |
| 5012 | 487 | 0.32 | 519 | 0.37 | 552 | 0.43 | 587 | 0.5 | 623 | 0.56 | 658 | 0.62 | 693 | 0.68 | 728 | 0.74 | 751 | 0.79 | 779 | 0.84 | 833 | 0.93 |
| 5309 | 501 | 0.37 | 532 | 0.42 | 565 | 0.48 | 599 | 0.54 | 632 | 0.6 | 666 | 0.66 | 700 | 0.72 | 734 | 0.78 | 755 | 0.83 | 783 | 0.88 | 837 | 0.97 |
| 5607 | 520 | 0.43 | 548 | 0.48 | 581 | 0.54 | 613 | 0.6 | 644 | 0.66 | 677 | 0.73 | 710 | 0.79 | 740 | 0.84 | 759 | 0.89 | 787 | 0.93 | 841 | 1.02 |
| 5904 | 541 | 0.51 | 568 | 0.57 | 600 | 0.63 | 631 | 0.69 | 658 | 0.75 | 691 | 0.8 | 721 | 0.87 | 746 | 0.9 | 764 | 0.95 | 793 | 1 | 846 | 1.1 |
| 6201 | 562 | 0.61 | 588 | 0.66 | 618 | 0.72 | 648 | 0.78 | 671 | 0.83 | 703 | 0.89 | 732 | 0.95 | 753 | 0.98 | 772 | 1.03 | 801 | 1.08 | 853 | 1.19 |
| 6499 | 582 | 0.72 | 608 | 0.77 | 637 | 0.83 | 666 | 0.89 | 685 | 0.94 | 711 | 0.98 | 739 | 1.03 | 763 | 1.07 | 787 | 1.13 | 815 | 1.18 | 862 | 1.3 |
| 6796 | 602 | 0.83 | 628 | 0.87 | 656 | 0.94 | 683 | 1.01 | 698 | 1.04 | 720 | 1.07 | 747 | 1.12 | 773 | 1.18 | 801 | 1.22 | 829 | 1.28 | 872 | 1.41 |
| 1.12 kW Standard Motor and Drive | | | | | | | | | | | | | | | | | | 1.49 kW Oversized Motor and High Static Drive | | | | |

Notes:

1. Performance based on a wet coil and 1 inch (25.4 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 3.0 turns open. Adjustments are made in 0.5 turn increments.
4. Low Static Drive must be field supplied.

Table PD-31— Continued

| External Static Pressure (Pascal) | | | |
|---|---------------|---------------|--|
| m³/hr | 349 RPM kW | 398 RPM kW | |
| 1.49 kW Oversized Motor and High Static Drive | | | |
| 4417 | 881 0.97 | 936 1.08 | |
| 4715 | 884 1.01 | 938 1.13 | |
| 5012 | 886 1.05 | 939 1.17 | |
| 5309 | 889 1.1 | 941 1.22 | |
| 5607 | 892 1.15 | 945 1.29 | |
| 5904 | 897 1.22 | 950 1.38 | |
| 6201 | 902 1.29 | 955 1.48 | |
| 6499 | 912 1.41 | 960 1.63 | |
| 6796 | 922 1.52 | 965 1.72 | |

Table PD-32 — Blower Speeds — TWE100A, TWE100B

| Motor Sheave Turns Open | | | | | | | |
|-------------------------|-----|-----|-----|-----|-----|-----|-----|
| Drive | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Standard | N/A | 587 | 629 | 671 | 713 | 755 | 796 |
| Low Static | N/A | 453 | 485 | 518 | 550 | 583 | 615 |
| High Static | N/A | 606 | 641 | 677 | 713 | 748 | 784 |
| High Static II | N/A | 745 | 789 | 833 | 877 | 920 | 965 |

Performance Data

Air Handler

Table PD-33 — Evaporator Fan Performance — TWE155B (I-P)

| External Static Pressure (Inches of Water Column) | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|-------|------|-------|------|
| CFM | .10" | | .20" | | .30" | | .40" | | .50" | | .60" | | .70" | | .80" | | .90" | | 1.00" | | 1.20" | | 1.40" | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 2.0 HP Standard Motor and Drive | | | | | | | | | | | | | | | | | | | 3.0 HP Oversized Motor and High Static Drive | | | | | |
| 4000 | 628 | 1.34 | 653 | 1.38 | 678 | 1.43 | 692 | 1.48 | 708 | 1.52 | 723 | 1.57 | 738 | 1.60 | 749 | 1.61 | 759 | 1.62 | 795 | 1.66 | 851 | 1.85 | 907 | 2.03 |
| 4250 | 633 | 1.37 | 658 | 1.41 | 683 | 1.46 | 697 | 1.51 | 713 | 1.55 | 728 | 1.60 | 743 | 1.62 | 751 | 1.63 | 770 | 1.64 | 806 | 1.71 | 862 | 1.90 | 918 | 2.11 |
| 4500 | 637 | 1.40 | 662 | 1.44 | 687 | 1.49 | 701 | 1.53 | 717 | 1.58 | 732 | 1.63 | 747 | 1.64 | 754 | 1.65 | 782 | 1.67 | 817 | 1.76 | 873 | 1.96 | 929 | 2.19 |
| 4750 | 641 | 1.42 | 666 | 1.50 | 691 | 1.53 | 705 | 1.61 | 721 | 1.63 | 736 | 1.65 | 751 | 1.66 | 765 | 1.67 | 793 | 1.72 | 828 | 1.81 | 884 | 2.01 | 940 | 2.27 |
| 5000 | 645 | 1.44 | 670 | 1.52 | 695 | 1.56 | 710 | 1.65 | 725 | 1.67 | 739 | 1.68 | 758 | 1.70 | 777 | 1.74 | 806 | 1.81 | 839 | 1.91 | 896 | 2.13 | — | — |
| 5260 | 650 | 1.46 | 675 | 1.53 | 700 | 1.59 | 716 | 1.67 | 728 | 1.70 | 741 | 1.73 | 765 | 1.75 | 790 | 1.82 | 819 | 1.92 | 849 | 2.03 | 907 | 2.28 | — | — |
| 5500 | 652 | 1.47 | 678 | 1.55 | 703 | 1.63 | 721 | 1.71 | 734 | 1.75 | 747 | 1.78 | 775 | 1.83 | 804 | 1.92 | 832 | 2.03 | 861 | 2.15 | 920 | 2.44 | — | — |
| 5750 | 653 | 1.48 | 680 | 1.57 | 706 | 1.68 | 726 | 1.76 | 743 | 1.81 | 761 | 1.86 | 789 | 1.94 | 817 | 2.04 | 846 | 2.16 | 875 | 2.29 | 935 | 2.61 | — | — |
| 6000 | 655 | 1.49 | 681 | 1.59 | 709 | 1.74 | 731 | 1.80 | 752 | 1.87 | 774 | 1.94 | 803 | 2.05 | 831 | 2.17 | 860 | 2.29 | 889 | 2.44 | 950 | 2.78 | — | — |

Notes:

1. Performance based on a wet coil and 2 inch (51 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-33 — Evaporator Fan Performance TWE155B (SI)

| External Static Pressure (Pascal) | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|---|------|-----|------|-----|------|
| m³/hr | 25 | | 50 | | 75 | | 100 | | 125 | | 150 | | 174 | | 199 | | 224 | | 249 | | 299 | | 349 | |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW |
| 1.49 kW Standard Motor and Drive | | | | | | | | | | | | | | | | | | | 2.24 kW Oversized Motor and High Static Drive | | | | | |
| 6796 | 628 | 1 | 653 | 1.03 | 678 | 1.07 | 692 | 1.1 | 708 | 1.13 | 723 | 1.17 | 738 | 1.19 | 749 | 1.2 | 759 | 1.21 | 795 | 1.24 | 851 | 1.38 | 907 | 1.51 |
| 7221 | 633 | 1.02 | 658 | 1.05 | 683 | 1.09 | 697 | 1.13 | 713 | 1.16 | 728 | 1.19 | 743 | 1.21 | 751 | 1.22 | 770 | 1.22 | 806 | 1.28 | 862 | 1.42 | 918 | 1.57 |
| 7646 | 637 | 1.04 | 662 | 1.07 | 687 | 1.11 | 701 | 1.14 | 717 | 1.18 | 732 | 1.22 | 747 | 1.23 | 754 | 1.23 | 782 | 1.25 | 817 | 1.31 | 873 | 1.46 | 929 | 1.63 |
| 8070 | 641 | 1.06 | 666 | 1.12 | 691 | 1.14 | 705 | 1.2 | 721 | 1.22 | 736 | 1.23 | 751 | 1.24 | 765 | 1.25 | 793 | 1.28 | 828 | 1.35 | 884 | 1.5 | 940 | 1.69 |
| 8495 | 645 | 1.07 | 670 | 1.13 | 695 | 1.16 | 710 | 1.23 | 725 | 1.25 | 739 | 1.25 | 758 | 1.27 | 777 | 1.3 | 806 | 1.35 | 839 | 1.42 | 896 | 1.59 | — | — |
| 8937 | 650 | 1.09 | 675 | 1.14 | 700 | 1.19 | 716 | 1.25 | 728 | 1.27 | 741 | 1.29 | 765 | 1.3 | 790 | 1.36 | 819 | 1.43 | 849 | 1.51 | 907 | 1.7 | — | — |
| 9345 | 652 | 1.1 | 678 | 1.16 | 703 | 1.22 | 721 | 1.28 | 734 | 1.3 | 747 | 1.33 | 775 | 1.36 | 804 | 1.43 | 832 | 1.51 | 861 | 1.6 | 920 | 1.82 | — | — |
| 9769 | 653 | 1.1 | 680 | 1.17 | 706 | 1.25 | 726 | 1.31 | 743 | 1.3 | 761 | 1.39 | 789 | 1.45 | 817 | 1.52 | 846 | 1.61 | 875 | 1.71 | 935 | 1.95 | — | — |
| 10194 | 655 | 1.11 | 681 | 1.19 | 709 | 1.3 | 731 | 1.34 | 752 | 1.35 | 774 | 1.45 | 803 | 1.53 | 831 | 1.62 | 860 | 1.71 | 889 | 1.82 | 950 | 2.07 | — | — |

Notes:

1. Performance based on a wet coil and 2 inch (51 mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.

Table PD-34— Blower Speeds — TWE155B

| Drive | Motor Sheave Turns Open | | | | | | |
|-------------|-------------------------|-----|-----|-----|-----|-----|-----|
| | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Standard | 619 | 648 | 677 | 705 | 734 | 763 | N/A |
| High Static | 777 | 806 | 835 | 863 | 892 | 921 | 950 |



Performance Data

Air Handler

Table PD-35 — Evaporator Fan Performance TWE200B (I-P)

| External Static Pressure (In. Of Water Column) | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------|------|--|------|------|------|------|------|------|------|---|------|------|------|------|------|------|------|------|------|------|------|---|------|-----|-----|
| CFM | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | | 0.90 | | 1.00 | | 1.20 | | 140 | | | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| 5200 | — | — | 461 | 0.74 | 503 | 0.91 | 545 | 1.07 | 587 | 1.03 | 619 | 1.17 | 685 | 1.40 | 723 | 1.59 | 750 | 1.74 | 777 | 1.89 | 851 | 2.19 | 898 | 2.39 | | |
| 5525 | — | — | 479 | 0.88 | 521 | 1.04 | 563 | 1.21 | 605 | 1.21 | 640 | 1.35 | 701 | 1.58 | 739 | 1.77 | 766 | 1.92 | 793 | 2.07 | 859 | 2.37 | 906 | 2.60 | | |
| 5850 | — | — | 497 | 1.01 | 539 | 1.18 | 581 | 1.34 | 623 | 1.39 | 661 | 1.53 | 717 | 1.76 | 755 | 1.95 | 782 | 2.10 | 809 | 2.25 | 868 | 2.55 | 915 | 2.81 | | |
| 6175 | 473 | 0.99 | 515 | 1.15 | 557 | 1.31 | 599 | 1.48 | 641 | 1.57 | 682 | 1.71 | 732 | 1.94 | 769 | 2.12 | 796 | 2.27 | 823 | 2.43 | 877 | 2.73 | 924 | 3.02 | | |
| 6500 | 492 | 1.12 | 534 | 1.28 | 576 | 1.45 | 618 | 1.61 | 660 | 1.75 | 702 | 1.90 | 748 | 2.12 | 784 | 2.30 | 811 | 2.45 | 838 | 2.60 | 886 | 2.91 | 933 | 3.22 | | |
| 6825 | 510 | 1.25 | 552 | 1.42 | 594 | 1.59 | 636 | 1.75 | 678 | 1.91 | 723 | 2.10 | 763 | 2.30 | 794 | 2.47 | 820 | 2.62 | 846 | 2.77 | 894 | 3.09 | 941 | 3.42 | | |
| 7150 | 528 | 1.38 | 570 | 1.56 | 612 | 1.73 | 654 | 1.90 | 697 | 2.07 | 744 | 2.30 | 779 | 2.49 | 804 | 2.64 | 830 | 2.78 | 855 | 2.94 | 903 | 3.26 | 950 | 3.62 | | |
| 7475 | 550 | 1.61 | 594 | 1.77 | 640 | 1.92 | 683 | 2.08 | 721 | 2.29 | 760 | 2.50 | 790 | 2.67 | 815 | 2.81 | 840 | 2.96 | 865 | 3.11 | 914 | 3.47 | 959 | 3.85 | | |
| 7800 | 572 | 1.83 | 618 | 1.97 | 668 | 2.10 | 712 | 2.27 | 746 | 2.52 | 776 | 2.69 | 802 | 2.84 | 826 | 2.99 | 851 | 3.13 | 876 | 3.27 | 926 | 3.67 | 969 | 4.08 | | |
| 3.0 HP Standard Motor and Low Static Drive | | | 3.0 HP Standard Motor and Low Static Drive System II | | | | | | | | 3.0 HP Standard Motor and Standard Drive System | | | | | | | | | | | | 5.0 HP Oversized Motor and High Static Drive System | | | |

Notes:

1. Performance based on a wet coil and 2 inch (51mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.
4. Low static drive components referencing this note are field supplied.

Table PD-35 — Continued

External Static Pressure (In. Of Water Column)

| CFM | 1.60 RPM BHP | 1.80 RPM BHP |
|---|-----------------|-----------------|
| 5.0 HP Oversized Motor and High Static Drive System | | |
| 5200 | 944 2.75 | 989 3.12 |
| 5525 | 952 2.96 | 997 3.33 |
| 5850 | 961 3.17 | 1006 3.54 |
| 5175 | 970 3.38 | 1015 3.75 |
| 8500 | 978 3.59 | 1023 3.96 |
| 8825 | 986 3.80 | — — |
| 7150 | 994 4.01 | — — |
| 7475 | 1003 4.25 | — — |
| 7800 | 1012 4.50 | — — |

Table PD-35 — Evaporator Fan Performance TWE200B (SI)

| External Static Pressure (Pascal) | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----|------|---|------|-----|------|-----|--|-----|------|-----|------|--|------|-----|------|-----|------|-----|------|-----|------|-----|------|
| m³/hr | 25 | | 50 | | 75 | | 100 | | 125 | | 150 | | 174 | | 199 | | 224 | | 249 | | 299 | | 349 | |
| | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW | RPM | kW |
| 8835 | — | — | 461 | 0.55 | 503 | 0.68 | 545 | 0.8 | 587 | 0.77 | 619 | 0.87 | 685 | 1.04 | 723 | 1.19 | 750 | 1.3 | 777 | 1.41 | 851 | 1.63 | 898 | 1.78 |
| 9387 | — | — | 479 | 0.66 | 521 | 0.78 | 563 | 0.9 | 605 | 0.9 | 640 | 1.01 | 701 | 1.18 | 739 | 1.32 | 766 | 1.43 | 793 | 1.54 | 859 | 1.77 | 906 | 1.94 |
| 9939 | — | — | 497 | 0.75 | 539 | 0.88 | 581 | 1 | 623 | 1.04 | 661 | 1.14 | 717 | 1.31 | 755 | 1.45 | 782 | 1.57 | 809 | 1.68 | 868 | 1.9 | 915 | 2.1 |
| 10491 | 473 | 0.74 | 515 | 0.86 | 557 | 0.98 | 599 | 1.1 | 641 | 1.17 | 682 | 1.28 | 732 | 1.45 | 769 | 1.58 | 796 | 1.69 | 823 | 1.81 | 877 | 2.04 | 924 | 2.52 |
| 11044 | 492 | 0.84 | 534 | 0.95 | 576 | 1.08 | 618 | 1.2 | 660 | 1.3 | 702 | 1.42 | 748 | 1.58 | 784 | 1.72 | 811 | 1.83 | 838 | 1.94 | 886 | 2.17 | 933 | 2.4 |
| 11596 | 510 | 0.93 | 552 | 1.06 | 594 | 1.19 | 636 | 1.3 | 678 | 1.42 | 723 | 1.57 | 763 | 1.72 | 794 | 1.84 | 820 | 1.95 | 846 | 2.07 | 894 | 2.3 | 941 | 2.55 |
| 12148 | 528 | 1.03 | 570 | 1.16 | 612 | 1.29 | 654 | 1.42 | 697 | 1.54 | 744 | 1.72 | 779 | 1.86 | 804 | 1.97 | 830 | 2.07 | 855 | 2.19 | 903 | 2.43 | 950 | 2.7 |
| 12700 | 550 | 1.2 | 594 | 1.32 | 640 | 1.43 | 683 | 1.55 | 721 | 1.71 | 760 | 1.87 | 790 | 1.99 | 815 | 2.1 | 840 | 2.21 | 865 | 2.32 | 914 | 2.59 | 959 | 2.87 |
| 13252 | 572 | 1.36 | 618 | 1.47 | 668 | 1.57 | 712 | 1.69 | 746 | 1.88 | 776 | 2.01 | 802 | 2.12 | 826 | 2.23 | 851 | 2.33 | 876 | 2.44 | 926 | 2.74 | 969 | 3.04 |
| 2.24 kW Standard Motor and Low Static Drive System | | | 2.24 kW Standard Motor and Low Static Drive System II | | | | | 2.24 kW Standard Motor and Standard Drive System | | | | | 3.73 kW Oversized Motor and High Static Drive System | | | | | | | | | | | |

Notes:

1. Performance based on a wet coil and 2 inch (51mm) throwaway filters.
2. Tabulated brake horsepower is the motor shaft output required.
3. Factory setting of motor sheave is 1.5 turns open. Adjustments are made in 0.5 turn increments.
4. Low static drive components referencing this note are field supplied.

Table PD-35 — Continued

External Static Pressure (Pascal)

| m ³ /hr | 398 RPM kW | 448 RPM kW |
|--|---------------|---------------|
| 3.73 kW Oversized Motor and High Static Drive System | | |
| 8835 | 944 2.05 | 989 2.33 |
| 9387 | 952 2.21 | 997 2.48 |
| 9939 | 961 2.36 | 1006 2.64 |
| 10491 | 970 2.52 | 1015 2.8 |
| 11044 | 978 2.68 | 1023 2.95 |
| 11596 | 986 2.83 | — — |
| 12148 | 994 2.99 | — — |
| 12700 | 1003 3.17 | — — |
| 13252 | 1012 3.36 | — — |

Table PD-36 — Blower Speeds — TWE200B

| | Motor Sheave Turns Open | | | | | | |
|---------------|-------------------------|-----|-----|-----|-----|-----|------|
| Drive | 6 | 5 | 4 | 3 | 2 | 1 | 0 |
| Standard | 706 | 732 | 758 | 784 | 811 | 837 | 863 |
| Low Static I | 457 | 478 | 500 | 521 | 542 | 563 | 585 |
| Low Static II | 574 | 595 | 617 | 638 | 659 | 680 | 702 |
| High Static | N/A | 821 | 862 | 903 | 945 | 986 | 1027 |

Performance Data

Table PD-37— Discharge Plenum And Grille Assembly Throw Distance — Air Handle — ft (m)

| Unit Model No. | CFM | m³/h | Louver Angle Deflection Position | | | |
|-------------------|------|-------|----------------------------------|-----------|-----------|-----------|
| | | | Straight | 20 | 40 | 55 |
| TWE050 | 1400 | 2380 | 38 (11.6) | 24 (7.3) | 22 (6.7) | 18 (5.5) |
| | 1600 | 2718 | 42 (12.8) | 31 (9.4) | 26 (7.9) | 20 (6.1) |
| | 1800 | 3060 | 46 (14.0) | 37 (11.3) | 29 (8.8) | 22 (6.7) |
| | 2000 | 3398 | 48 (14.6) | 43 (13.1) | 33 (10.1) | 24 (7.3) |
| | 2200 | 3737 | 51 (15.5) | 50 (15.2) | 36 (11.0) | 25 (7.6) |
| TWE075 | 2100 | 3568 | 49 (14.9) | 38 (11.6) | 31 (9.4) | 27 (8.2) |
| | 2400 | 4079 | 52 (15.9) | 43 (13.1) | 35 (10.7) | 29 (8.8) |
| | 2700 | 4586 | 55 (16.8) | 48 (14.6) | 38 (11.6) | 31 (9.4) |
| | 3000 | 5098 | 58 (17.7) | 53 (16.2) | 42 (12.8) | 32 (9.8) |
| TWE100 | 3200 | 5436 | 56 (17.1) | 46 (14.0) | 38 (11.6) | 30 (9.1) |
| | 3600 | 6116 | 62 (18.9) | 51 (15.5) | 42 (12.8) | 33 (10.1) |
| | 4000 | 6797 | 66 (20.1) | 57 (17.4) | 47 (14.3) | 35 (10.7) |
| | 4400 | 7477 | 71 (21.6) | 62 (18.9) | 52 (15.9) | 38 (11.6) |
| | 4800 | 8154 | 76 (23.2) | 67 (20.4) | 56 (17.1) | 42 (12.8) |
| TWE155 | 4300 | 7304 | 42 (12.8) | 32 (9.8) | 29 (8.8) | 21 (6.4) |
| | 4900 | 8327 | 47 (14.3) | 38 (11.6) | 32 (9.8) | 25 (7.6) |
| | 5400 | 9176 | 52 (15.9) | 44 (13.4) | 37 (11.3) | 29 (8.8) |
| | 6000 | 10195 | 57 (17.4) | 49 (14.9) | 41 (12.5) | 32 (9.8) |
| TWE200 | 5600 | 9515 | 50 (15.2) | 40 (12.2) | 33 (10.1) | 27 (8.2) |
| | 6400 | 10872 | 56 (17.1) | 46 (14.0) | 38 (11.6) | 30 (9.1) |
| | 7200 | 12233 | 62 (18.9) | 51 (15.5) | 42 (12.8) | 33 (10.1) |
| | 8000 | 13594 | 66 (20.1) | 57 (17.4) | 47 (14.3) | 35 (10.7) |

Throw distance values are based on a terminal velocity of 75 FPM (0.38 m/s).

Throw distance values at other terminal velocities may be established by multiplying throw distances in table above by throw factor:

| Terminal Velocity | Throw Factor |
|---------------------|--------------|
| 50 fpm (.25 m/s) x | 1.50 |
| 100 fpm (.51 m/s) x | .75 |
| 150 fpm (.76 m/s) x | .50 |

Table PD-38— Static Pressure Drop Through Accessories (Inches Of Water Column)¹ — Air Handler

| Unit Model No. | CFM | m³/h | Return Grille | | Discharge Plenum and Grille ² | | Electric Heaters (kW) | | | |
|-------------------|------|-------|---------------------|--------|--|---------|-----------------------|------------|------------|------------|
| | | | In. wc ¹ | Pascal | In. wc ¹ | Pascal | 5-10 | 15-20 | 25-30 | 35-50 |
| TWE050A | 1400 | 2380 | .09 | (22.4) | .16 | (39.8) | .06 (15.0) | .06 (15.0) | .12 (29.9) | — |
| | 1600 | 2718 | .12 | (29.9) | .21 | (52.3) | .08 (19.9) | .08 (19.9) | .14 (34.9) | — |
| | 2000 | 3398 | .18 | (44.8) | .33 | (82.2) | .13 (32.4) | .13 (32.4) | .19 (47.3) | — |
| TWE075A | 2100 | 3568 | .05 | (12.5) | .19 | (47.3) | .02 (5.0) | .03 (7.5) | .05 (12.5) | .08 (19.9) |
| | 2400 | 4079 | .08 | (19.9) | .27 | (67.2) | .03 (7.5) | .06 (15.0) | .08 (19.9) | .12 (29.9) |
| | 3000 | 5098 | .13 | (32.4) | .40 | (99.6) | .06 (15.0) | .12 (29.9) | .17 (42.4) | .23 (57.3) |
| TWE100A | 2800 | 4756 | .04 | (10.0) | .34 | (84.7) | .03 (7.5) | .04 (10.0) | .14 (34.9) | .20 (49.8) |
| TWE100B | 3200 | 5436 | .07 | (17.4) | .43 | (107.1) | .06 (15.0) | .13 (32.4) | .19 (47.3) | .26 (64.8) |
| TWE155B | 4300 | 7304 | .07 | (17.4) | .18 | (44.8) | .02 (5.0) | .02 (5.0) | .04 (10.0) | .05 (12.5) |
| | 4800 | 8154 | .09 | (22.4) | .23 | (57.3) | .03 (7.5) | .03 (7.5) | .06 (15.0) | .08 (19.9) |
| | 6000 | 10195 | .15 | (37.4) | .34 | (84.7) | .06 (15.0) | .06 (15.0) | .12 (29.9) | .17 (42.4) |
| TWE200B | 5600 | 9515 | .07 | (17.4) | .32 | (79.7) | .04 (10.0) | .04 (10.0) | .10 (25.0) | .15 (37.4) |
| | 6400 | 10872 | .11 | (27.4) | .43 | (107.1) | .06 (15.0) | .06 (15.0) | .13 (32.4) | .19 (47.3) |
| | 8000 | 13594 | .17 | (42.3) | .66 | (164.3) | .10 (25.0) | .10 (25.0) | .20 (49.8) | .30 (74.7) |

1. Return air filter ESP included in Fan Performance Table data.

2. At louver opening angle of 42°F (5.5°C). For ESP at other angle openings, see accessory Installer's Guide.



Performance Data

Table PD-39 — Auxiliary Electric Heat Capacity — Air Handler

| Unit Model No. | Total kW | No. of Stages | Stage 1 | | Stage 2 | | Total | |
|-------------------|-------------|---------------------|-------------|---------------|-------------|---------------|-------------|---------------|
| | | | kW Input | Btu Output | kW Input | Btu Output | kW Input | Btu Output |
| | 5.00 | 1 | 5.00 | 17,065 | — | — | 5.00 | 17,065 |
| TWE050/075/100AD | 9.96 | 1 | 9.96 | 33,993 | — | — | 9.96 | 33,993 |
| TWE100BD | 14.96 | 1 | 14.96 | 51,058 | — | — | 14.96 | 51,058 |
| | 24.92 | 2 | 14.96 | 51,058 | 9.96 | 33,993 | 24.92 | 85,051 |
| TWE075, 100AD | | | | | | | | |
| TWE100BD | 34.88 | 2 | 19.92 | 67,987 | 14.96 | 51,058 | 34.88 | 119,045 |
| | 10.00 | 1 | 10.00 | 34,130 | — | — | 10.00 | 34,130 |
| TWE155,200B | 19.92 | 1 | 19.92 | 67,987 | — | — | 19.92 | 67,987 |
| | 29.92 | 2 | 19.92 | 67,987 | 10.00 | 34,130 | 29.92 | 102,117 |
| | 49.84 | 2 | 29.92 | 102,117 | 19.92 | 67,987 | 49.84 | 170,104 |

*Heaters are rated at 400v. For other than rated voltage,

$$\text{Capacity} = \left(\frac{\text{Voltage}}{\text{Rated Voltage}} \right)^2 \times \text{Rated Capacity and kW} = \left(\frac{\text{Voltage}}{\text{Rated Voltage}} \right)^2 \text{ Rated kW.}$$

Electrical Data

Table ED-1 — Unit Wiring — Condensing Units

| Unit Model No. | Unit Operating Voltage | Minimum Circuit Ampacity | Maximum Fuse Size or Maximum Circuit Breaker |
|----------------|------------------------|--------------------------|--|
| TTA075A | 380/415 | 15.5 | 25 |
| TTA085A | 380/415 | 17.8 | 25 |
| TTA100A | 380/415 | 21.5 | 35 |
| TTA100B | 380/415 | 23.0 | 30 |
| TTA125B | 380/415 | 28.1 | 35 |
| TTA155B | 380/415 | 28.3 | 35 |
| TTA155C | 380/415 | 35.1 | 45 |
| TTA200B | 380/415 | 39.3 | 50 |

Table ED-2 — Electrical Characteristics — Motors — Condensing Units

| Compressor Motor | | | | | Condenser Fan Motor | | | |
|------------------|-----|-------|-----------|-----------|---------------------|-------|-----------|-----------|
| | | | Amps | | | | | Amps |
| Unit Model No. | No. | Phase | RLA (Ea.) | LRA (Ea.) | No. | Phase | FLA (Ea.) | LRA (Ea.) |
| TTA075A | 1 | 3 | 11.0 | 90.0 | 1 | 1 | 1.6 | 4.0 |
| TTA085A | 1 | 3 | 11.9 | 118.0 | 1 | 1 | 2.7 | 9.3 |
| TTA100A | 1 | 3 | 14.9 | 118.0 | 1 | 1 | 2.7 | 9.3 |
| TTA100B | 2 | 3 | 9.0 | 62.0 | 1 | 1 | 2.7 | 9.3 |
| TTA125B | 2 | 3 | 11.3 | 75.0 | 2 | 1 | 2.7 | 9.3 |
| TTA155B | 2 | 3 | 11.0 | 90.0 | 2 | 1 | 1.6 | 4.0 |
| TTA155C | 1 | 3 | 14.0 | 92.5 | 2 | 1 | 1.6 | 3.8 |
| TTA200B | 2 | 3 | 14.9 | 118.0 | 2 | 1 | 2.7 | 9.3 |

NOTE:

1. Electrical characteristics reflect nameplate values and are calculated in accordance with UL and ARI specifications.

Table ED-3 — Electrical Characteristics — Motors — Air Handler

| Standard Fan Motor | | | | | Oversized Fan Motor | | | |
|--------------------|---------|-------|------|------|---------------------|-----|------|------|
| | | | Amps | | | | | Amps |
| Unit Model No. | Volts | Phase | FLA | LRA | Phase | FLA | LRA | |
| TWE050 | 380/415 | 3 | 2.9 | 8.2 | 3 | 1.8 | 21.6 | |
| TWE075 | 380/415 | 3 | 3.8 | 19.7 | 3 | 4.0 | 27.5 | |
| TWE100 | 380/415 | 3 | 4.0 | 27.5 | 3 | 5.3 | 37.5 | |
| TWE155 | 380/415 | 3 | 4.5 | 36.2 | 3 | 6.9 | 39.2 | |
| TWE200 | 380/415 | 3 | 7.6 | 45.0 | 3 | 9.0 | 65.1 | |

Table ED-4 — Unit Wiring — Air Handler

| Unit Model No. | Minimum Unit Operating Voltage Range | Maximum Fuse Circuit Ampacity | Size or Maximum Circuit Breaker |
|----------------|--------------------------------------|-------------------------------|---------------------------------|
| TWE050 | 380/415 | 4 | 15 |
| TWE075 | 380/415 | 5 | 15 |
| TWE100 | 380/415 | 5 | 15 |
| TWE155 | 380/415 | 6 | 15 |
| TWE200 | 380/415 | 10 | 15 |



Electric Heat Data

Table ED-5 — Unit Wiring With Electric Heat (Single Point Connection) — Air Handlers

| Heater Model No. | Heater kW Rating ¹ | To Use with Unit | Control Stages | Minimum Circuit Ampacity ² | Maximum Fuse Breaker Size ² |
|------------------|-------------------------------|--------------------|----------------|---------------------------------------|--|
| BAYHTRL405A | 5.00 | TWE050AD | 1 | 11 | 15 |
| BAYHTRL410A | 9.96 | | 1 | 17 | 20 |
| BAYHTRL415A | 14.96 | | 1 | 24 | 25 |
| BAYHTRL425A | 24.92 | | 2 | 37 | 40 |
| BAYHTRL405A | 5.00 | TWE075AD | 1 | 12 | 15 |
| BAYHTRL410A | 9.96 | | 1 | 18 | 20 |
| BAYHTRL415A | 14.96 | | 1 | 25 | 25 |
| BAYHTRL425A | 24.92 | | 2 | 38 | 40 |
| BAYHTRL435A | 34.88 | | 2 | 51 | 60 |
| BAYHTRL405A | 5.00 | TWE100AD, TWE100BD | 1 | 12 | 15 |
| BAYHTRL410A | 9.96 | | 1 | 19 | 20 |
| BAYHTRL415A | 14.96 | | 1 | 25 | 25 |
| BAYHTRL425A | 29.92 | | 2 | 38 | 40 |
| BAYHTRL435A | 34.88 | | 2 | 52 | 60 |
| BAYHTRM410A | 10.00 | TWE155BD | 1 | 19 | 20 |
| BAYHTRM420A | 19.92 | | 1 | 32 | 35 |
| BAYHTRM430A | 29.92 | | 2 | 46 | 50 |
| BAYHTRM450A | 49.84 | | 2 | 72 | 80 |
| BAYHTRM410A | 10.00 | TWE200BD | 1 | 23 | 25 |
| BAYHTRM420A | 19.92 | | 1 | 36 | 40 |
| BAYHTRM430A | 29.92 | | 2 | 49 | 50 |
| BAYHTRM450A | 49.84 | | 2 | 76 | 80 |

1. kW ratings are at 400v for 3 phase, 400v air handlers

For other than rated voltage, ampacity = $\left(\frac{\text{Voltage}}{\text{Rated Voltage}}\right)^2 \times \text{Rated Capacity}$ and kW = $\left(\frac{\text{Voltage}}{\text{Rated Voltage}}\right)^2 \times \text{Rated kW}$.

2. Any power supply and circuits must be wired and protected in accordance with local codes. MCA and Maximum Fuse Size is based on 400V.

3. Field wire must be rated at least 167°F (75°C).

4. Field wire must be rated at least 194°F (90°C).

Jobsite Connections

Wiring shown with dashed lines is to be furnished and installed by the customer. All customer-supplied wiring must be copper only and must conform to local electrical codes.

NOTE:

1. When electric heater accessory is used, single point power entry or dual point power entry is field optional. Single point power entry option is through electric heater only.

TTA050/TWE050A

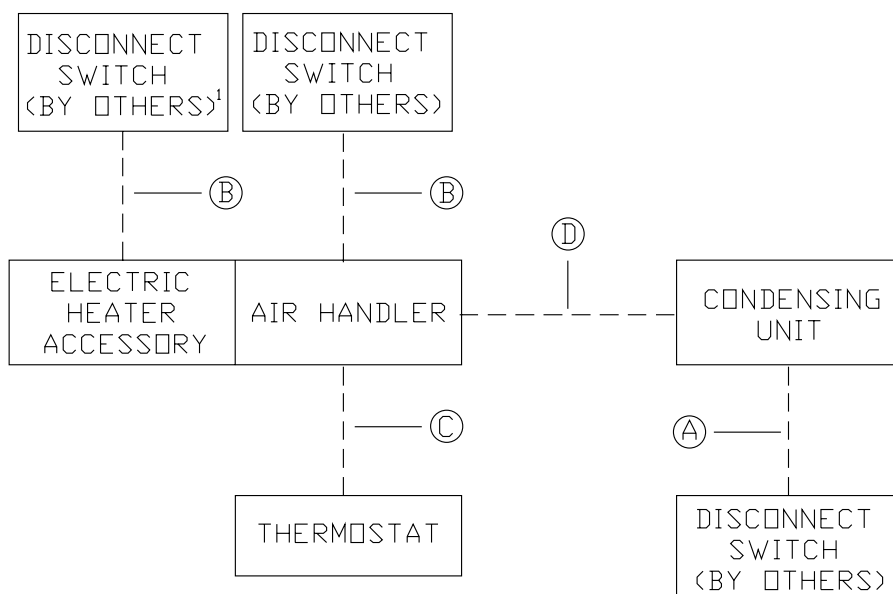
Field Wiring:

- A — 3 power wires. Line voltage for 3 phase, 2 wires for single phase.
- B — 3 power wires. Line voltage for 3 phase, 2 wires for single phase.
- C — Cooling only thermostat: 3 wires, 24 volts.
 - One-stage electric heat: add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires, 24 volts.
- D — 2 wires, 24 volts.

(2) TTA050/TWE100B

Field Wiring:

- A — 3 power wires. Line voltage for 3 phase, 2 wires for single phase.
- B — 3 power wires. Line voltage for 3 phase, 2 wires for single phase.
- C — Cooling only thermostat: 4 wires, 24 volts.
 - One-stage electric heat add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires, 24 volts.
- D — 2 wires, 24 volts to outdoor section "A"
 - 2 wires, 24 volts to outdoor section "B"



TTA075A/TWE075A;

TTA085/TWE075A;

TTA085/TWE100A;

TTA100A/TWE100A

Field Wiring:

- A — 3 power wires, line voltage.
- B — 3 power wires, line voltage for 3 phase; 2 wires for single phase.
- C — Cooling only thermostat: 3 wires, 24 volts.
 - One-stage electric heat: add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires; 24 volts.
- D — 4 wires, 24 volts.

TTA100B/TWE100B

Field Wiring:

- A — 3 power wires, line voltage.
- B — 3 power wires, line voltage for 3 phase; 2 wires for single phase.
- C — Cooling only thermostat: 4 wires, 24 volts.
 - One-stage electric heat: add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires, 24 volts.

- D — 5 wires, 24 volts.

TTA125B/TWE155B;

TTA155B/TWE155B;

TTA200B/TWE200B;

TTA155C/TWE155B

Field Wiring

- A — 3 power wires, line voltage
- B — 3 power wires, line voltage
- C — Cooling only thermostat: 4 wires, 24 volts.
 - One-stage electric heat: add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires, 24 volts.
- D — 5 wires, 24 volts.

(2) TTA075A/TWE155B;

(2) TTA100A/TWE200B

Field Wiring:

- A — 3 power wires, line voltage.
- B — 3 power wires, line voltage.
- C — Cooling only thermostat: 4 wires, 24 volts.
 - One-stage electric heat: add 1 additional wire, 24 volts.
 - Two-stage electric heat: add 2 additional wires, 24 volts.
- D — 6 wires, 24 volts.



Typical wiring diagram. For specific wiring, see individual Service Facts.

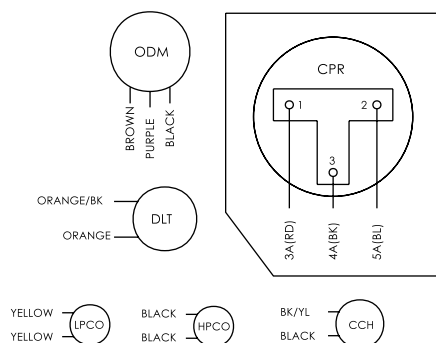
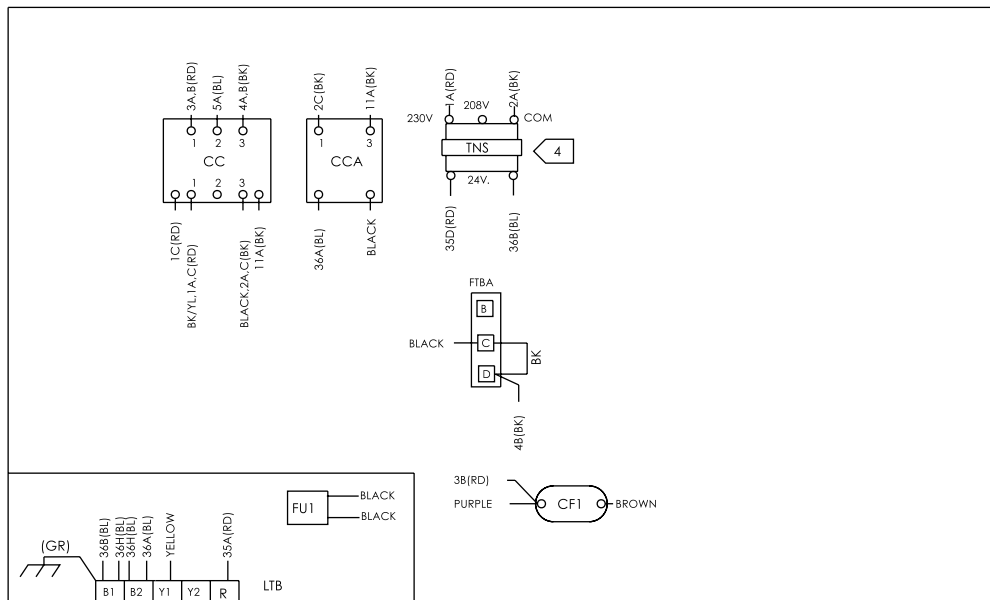


Typical Wiring

Condensing Unit

Condensing Unit — Single Compressor

Typical wiring diagram. For specific wiring, see individual Service Facts.



NOTE
THREE PHASE MOTOR (S) FACTORY
SUPPLIED IN THIS EQUIPMENT,
PROTECTED UNDER PRIMARY
SINGLE-PHASING CONDITIONS

NOTES:

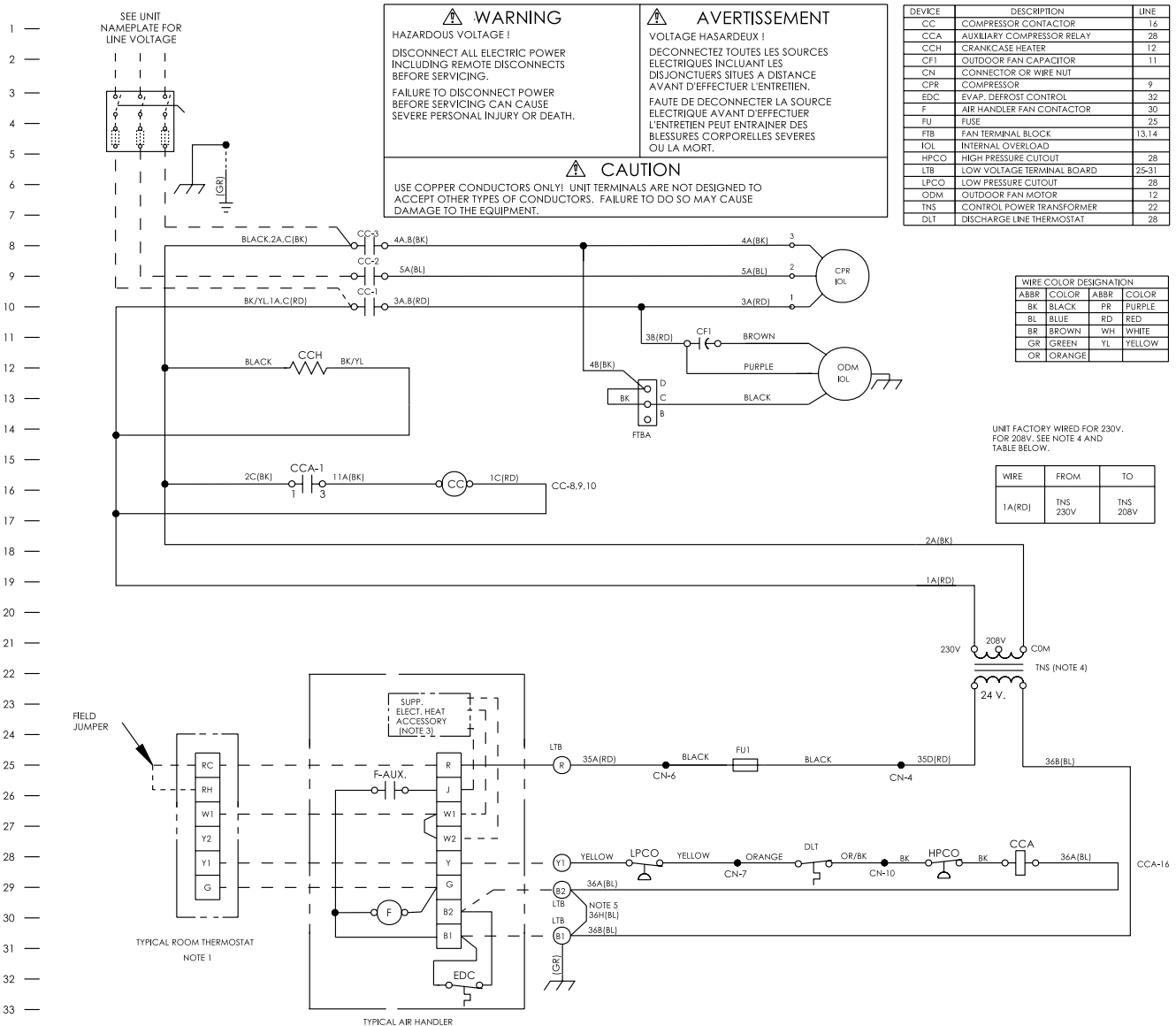
1. LOW VOLTAGE WIRING MUST BE 18 AWG MINIMUM.
2. MAXIMUM EXTERNAL LOW VOLTAGE LOAD 2.6 AMPS 24 V.A.C. DOES NOT INCLUDE ACCESSORIES BUT DOES INCLUDE INDOOR BLOWER RELAY.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED:
(A) AT TRANSFORMER, RELOCATE 1A(RD) WIRE FROM TERMINAL 230V TO TERMINAL 208V.
5. IF EVAPORATOR DEFROST CONTROL (EDC) IS USED, REMOVE JUMPER BETWEEN "B1" AND "B2".

TTA120A3

Typical Wiring

Condensing Unit

Condensing Unit — Single Compressor

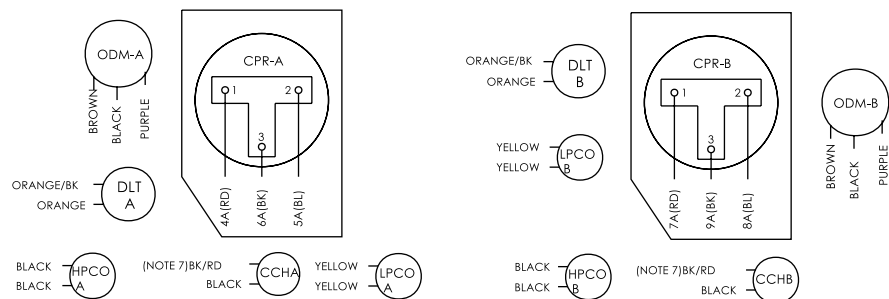
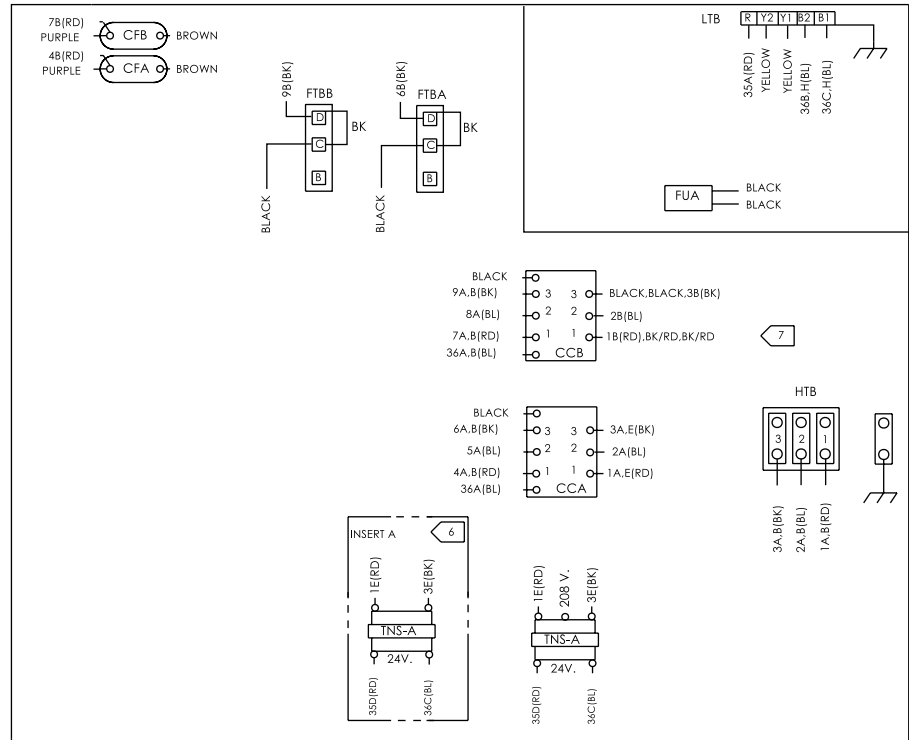


Typical Wiring

Condensing Unit

Condensing Unit — Dual Compressor

Typical wiring diagram. For specific wiring, see individual Service Facts.



NOTE
THREE PHASE MOTOR (S) FACTORY
SUPPLIED IN THIS EQUIPMENT,
PROTECTED UNDER PRIMARY
SINGLE-PHASING CONDITIONS

NOTES:

1. LOW VOLTAGE WIRING MUST BE 18 AWG MIN.
2. MAX. EXTERNAL LOW VOLTAGE LOAD 1.8 AMPS 24 V.A.C. DOES NOT INCLUDE ACCESSORIES BUT DOES INCLUDE INDOOR BLOWER RELAY.
3. SEE WIRING DIAGRAM WITH HEATER FOR DETAILS OF HEATER WIRING.
4. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED:
(A) AT TRANSFORMER REMOVE 1E(RD) WIRE FROM TRANSFORMER AND CONNECT TO THE TERMINAL MARKED 208 V..
5. IF EVAPORATOR DEFROST CONTROL (EDC) IS USED, REMOVE JUMPER BETWEEN "B1" AND "B2".
6. CONNECTIONS FOR THE 230V/60HZ/3PH UNIT ARE SHOWN FOR 400V., 460V. AND 575V. UNIT SEE TRANSFORMER CONNECTIONS IN INSERT A AND B.
7. AT ALL NOTE 7 REFERENCES, LEAD COLOR IS BK/BR ON TTA180/240BW MODELS. BK/YL ON TTA180B3 MODEL, AND BK/RD ON ALL OTHER MODELS.

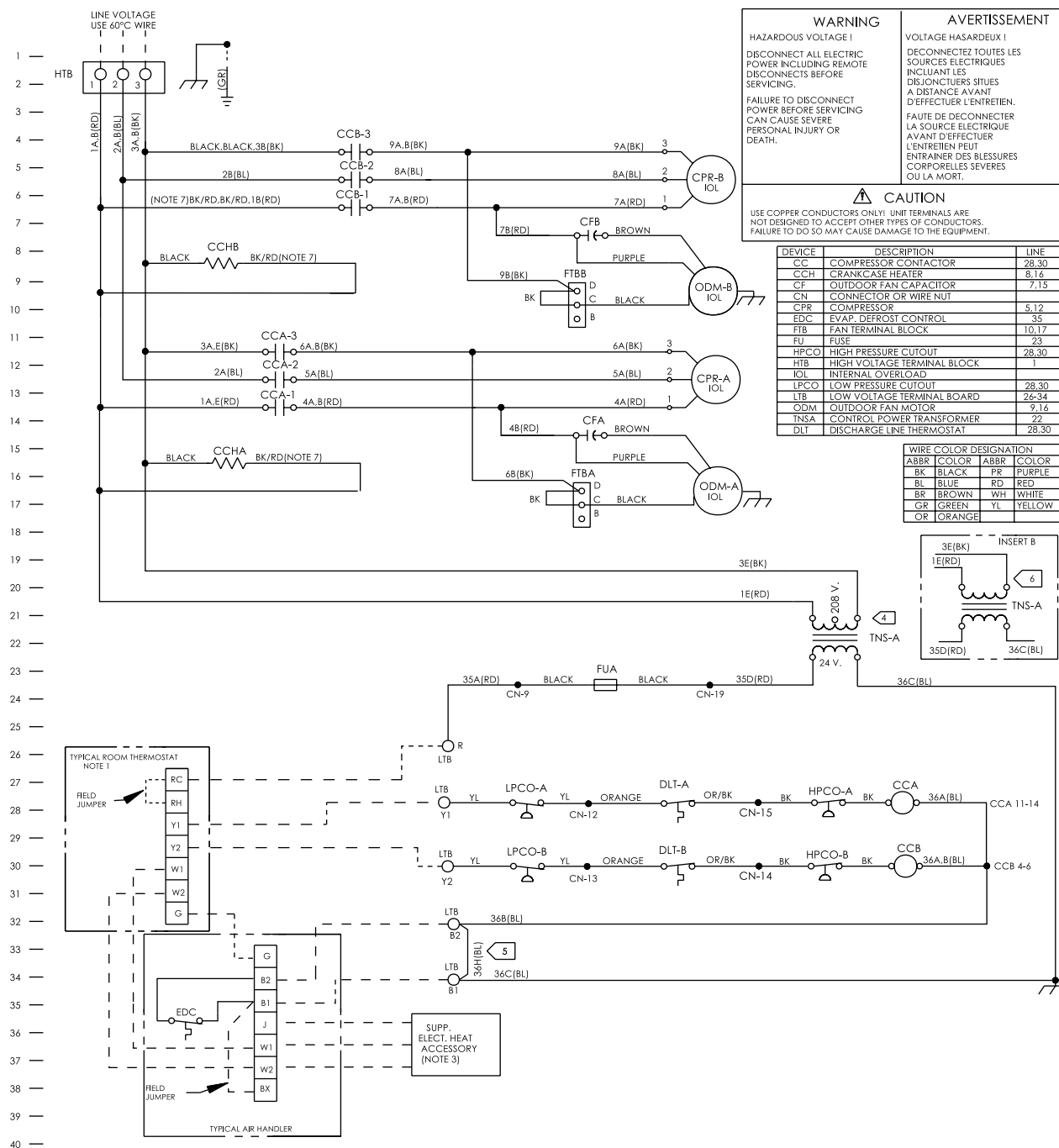
TTA155BD
TTA180B3
TTA180B4
TTA180BW
TTA180BK
TTA200BD
TTA240B4
TTA240BW
TTA240BK

C757164P01

Typical Wiring

Condensing Unit

Condensing Unit — Dual Compressor

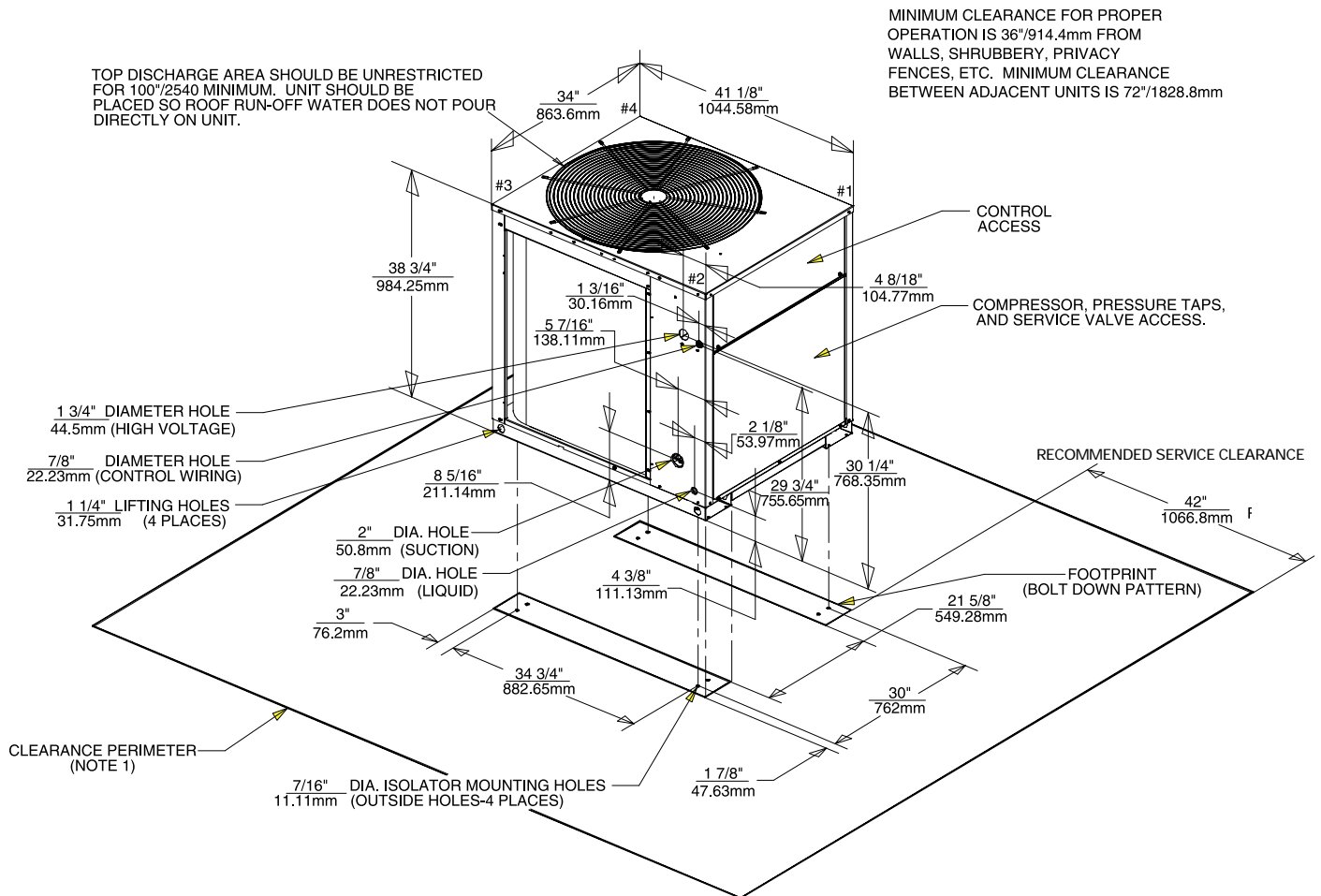


C757164P01

Dimensional Data

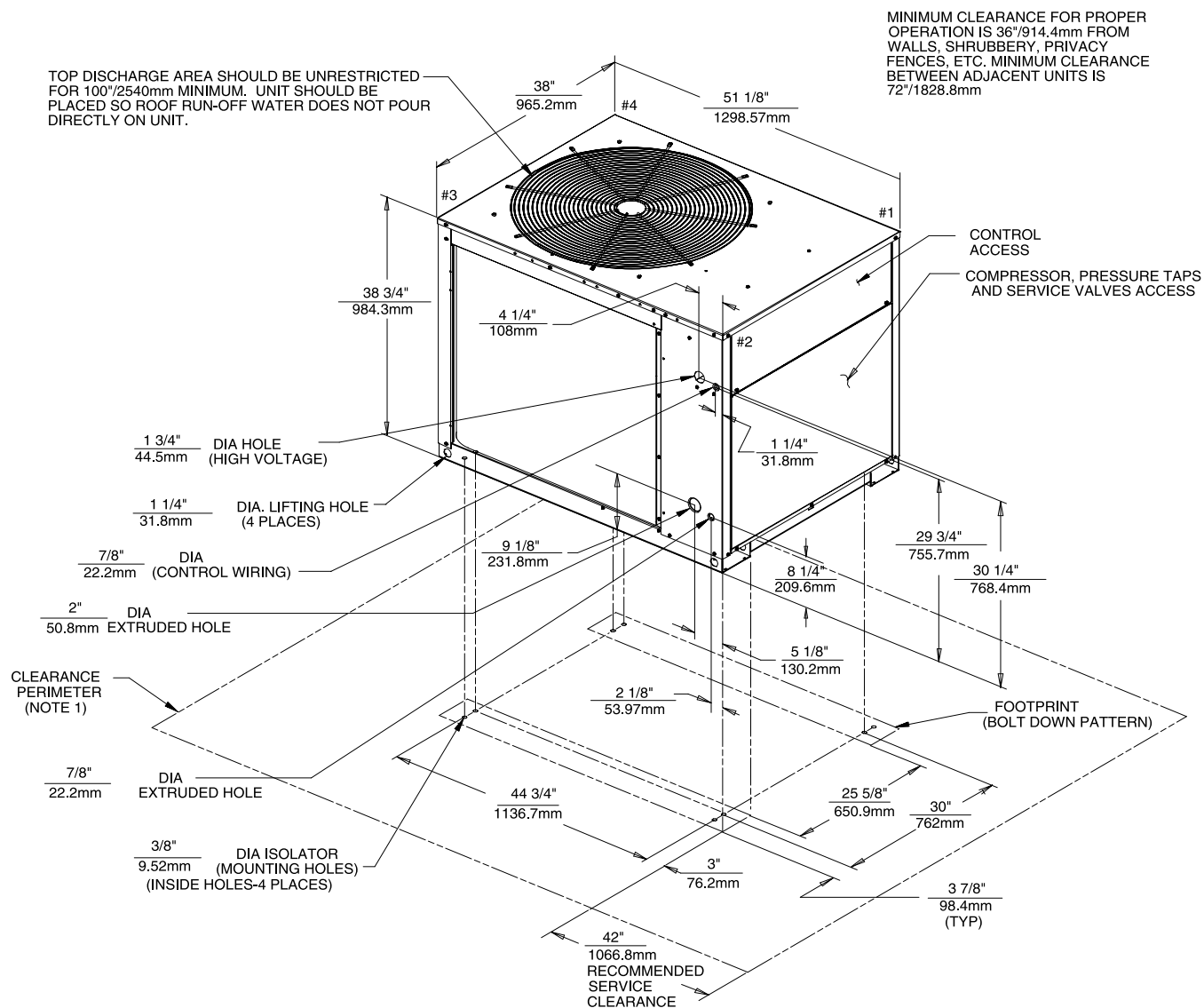
Figure DD-1 — TTA075 Condensing Units

All dimensions are in inches and millimeters.



Dimensional Data

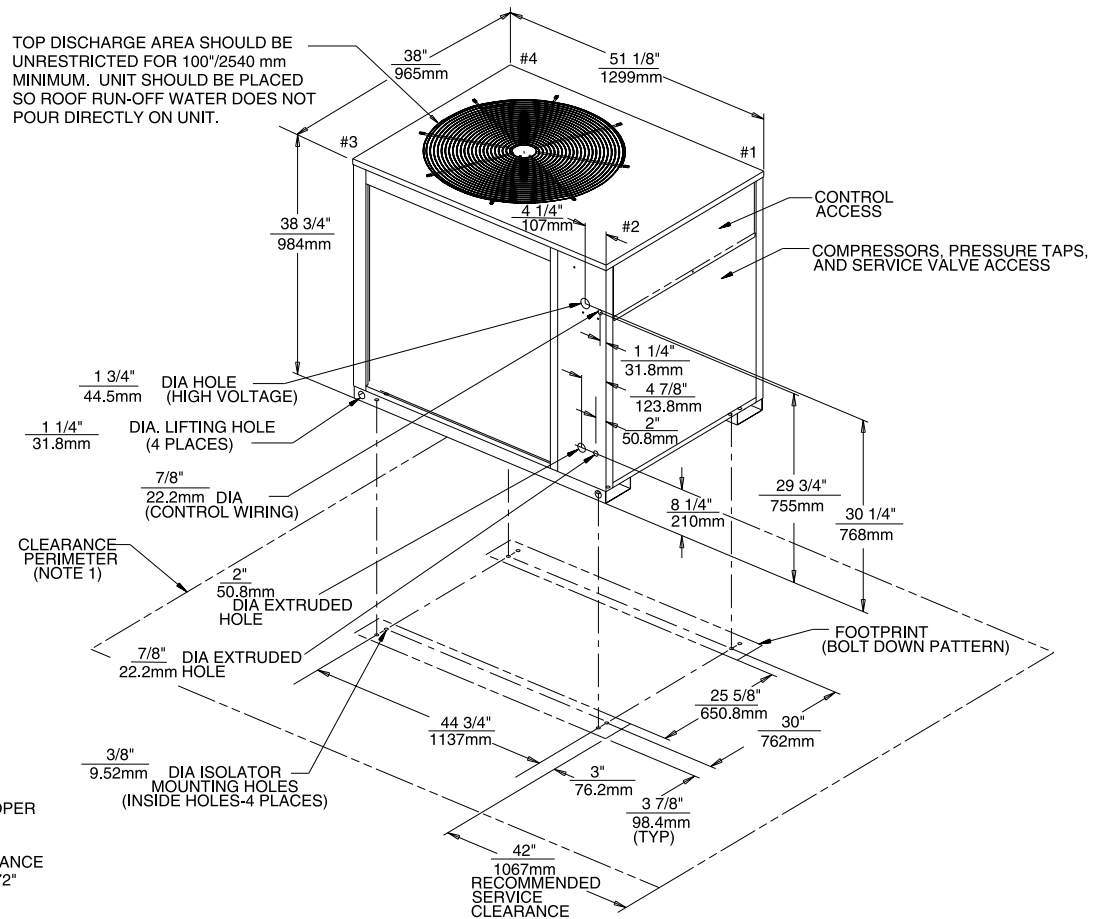
Figure DD-2 — TTA085A and 100A Condensing Units
All dimensions are in inches and millimeters.



Dimensional Data

Figure DD-3 — TTA100C Condensing Units

All dimensions are in inches and millimeters.



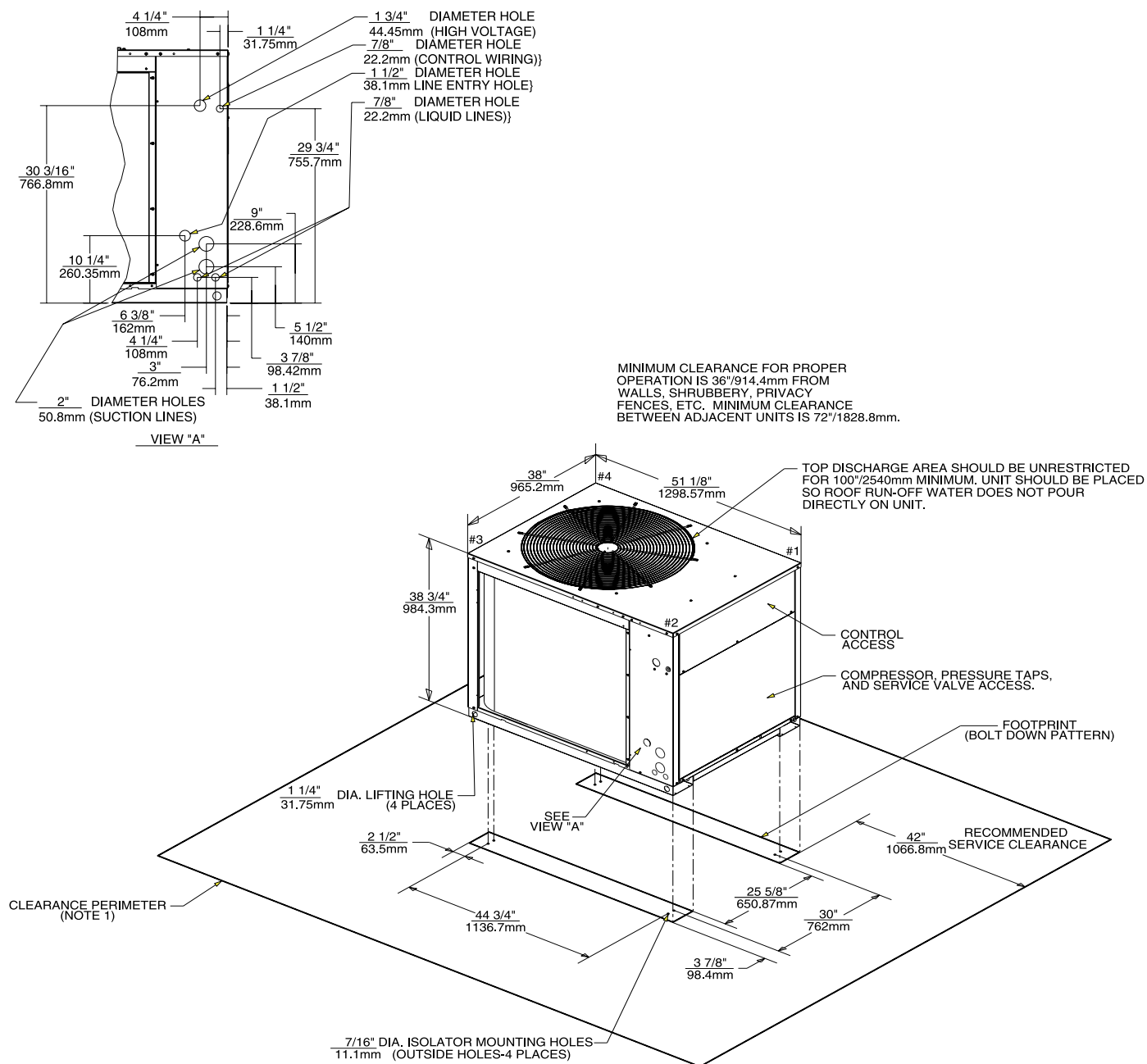
NOTES:

1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36"/914MM FROM WALLS, SHRUBBERY, PRIVACY FENCES, ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" /1830 MM.
2. ALL DIMENSIONS ARE GIVEN IN INCH/MILLIMETERS.
3. ALL MASSES (WEIGHT) ARE GIVEN IN POUNDS-FORCE/KILOGRAMS.

Dimensional Data

Figure DD-4 — TTA100B and TTA125B Condensing Units

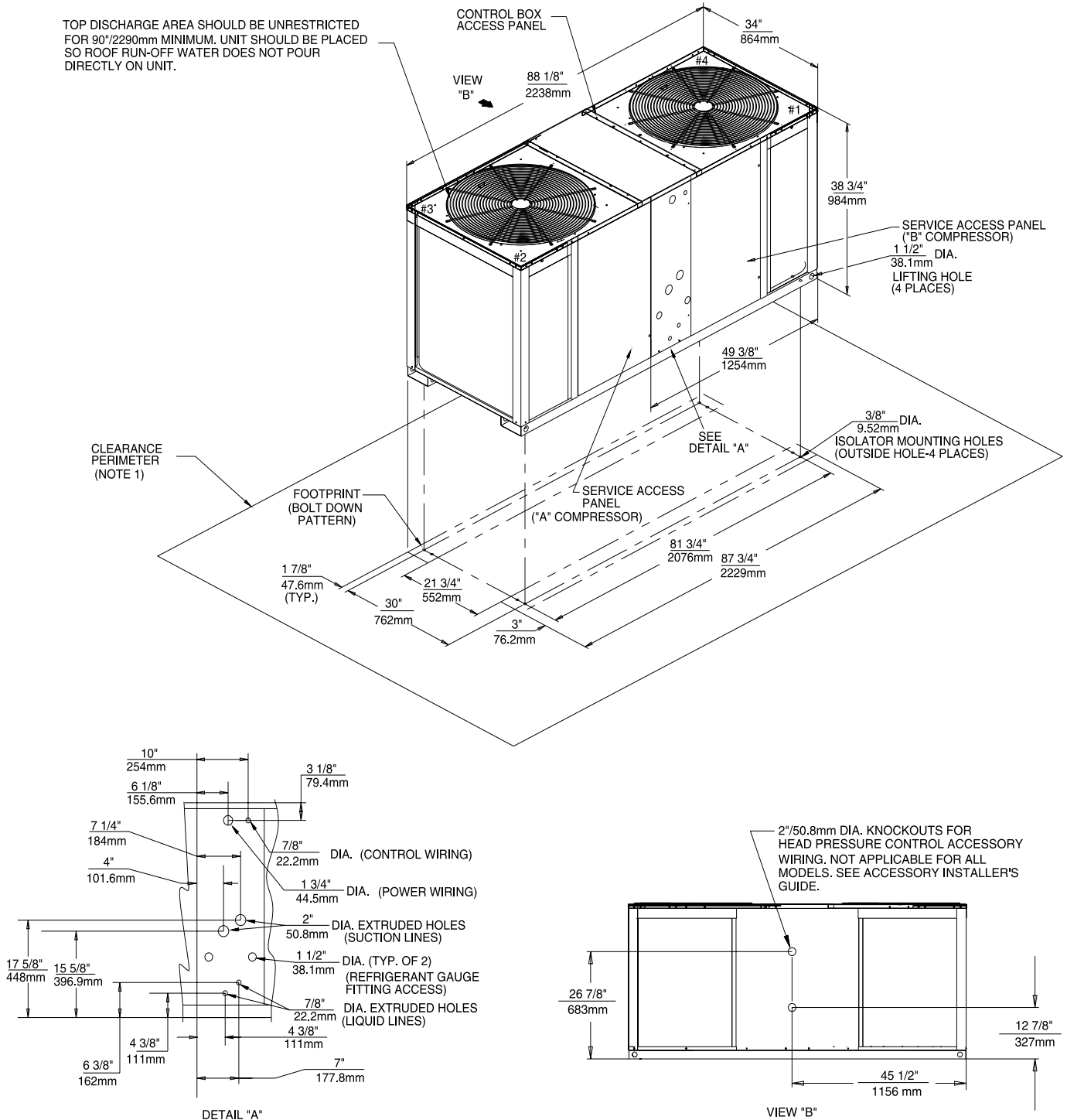
All dimensions are in inches and millimeters.



Dimensional Data

Figure DD- 5—TTA155B Condensing Unit

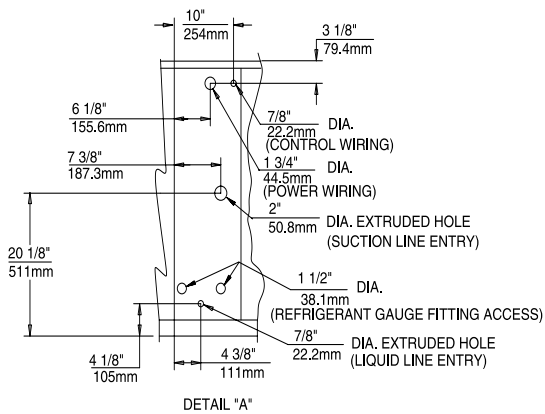
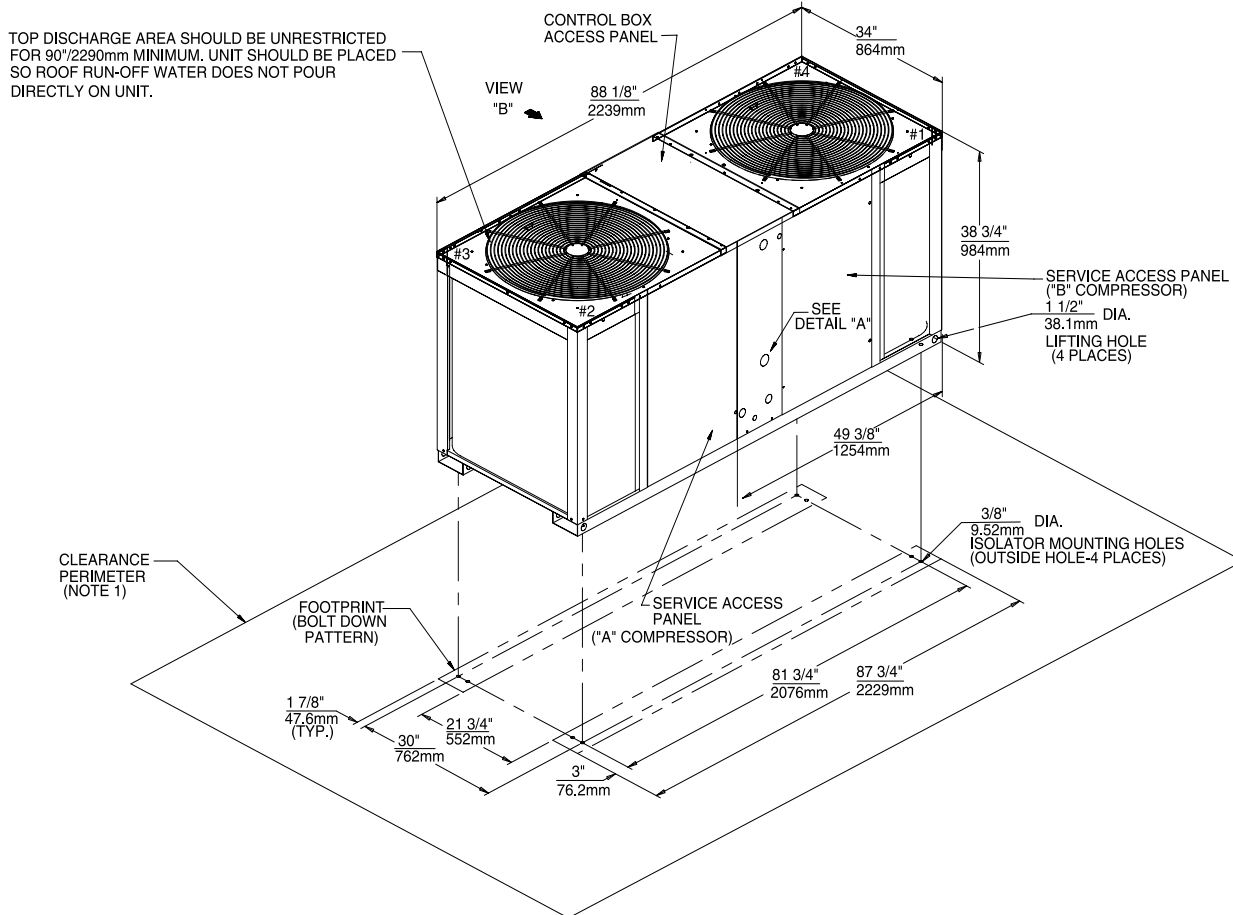
All dimensions are in inches and millimeters.



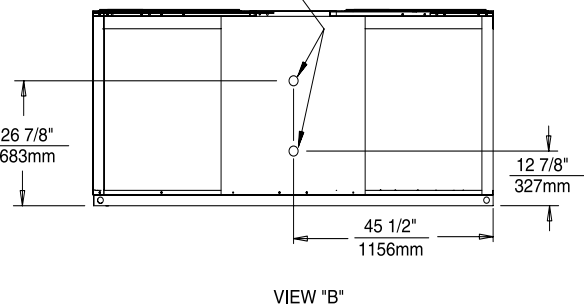
Dimensional Data

Figure DD-6 — TTA155C Condensing Units

All dimensions are in inches and millimeters.



2"/50.8mm DIA. KNOCKOUTS FOR HEAD PRESSURE CONTROL ACCESSORY WIRING. NOT APPLICABLE FOR ALL MODELS. SEE ACCESSORY INSTALLER'S GUIDE.

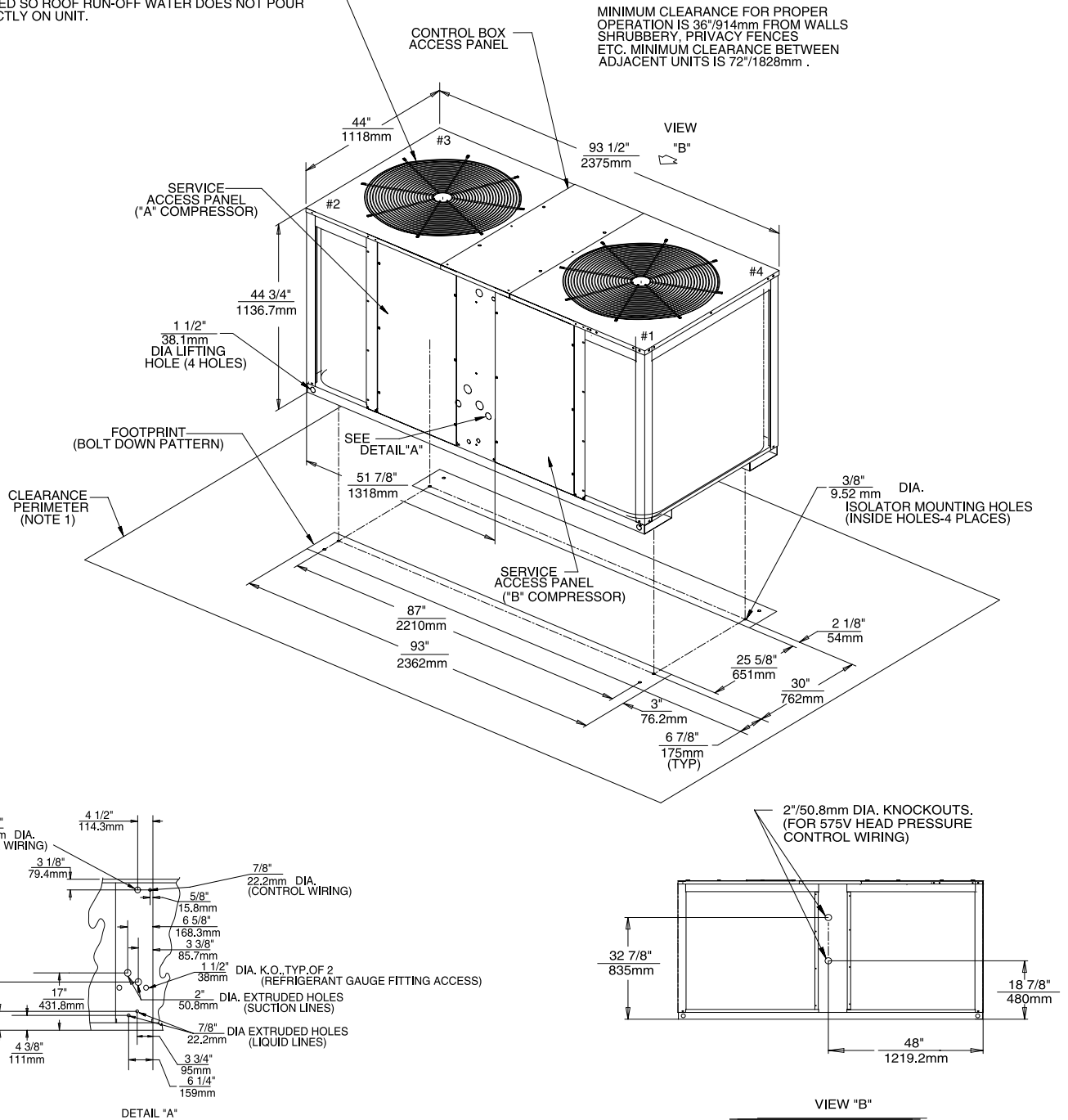


Dimensional Data

Figure DD-7 — TTA200B Condensing Unit

All dimensions are in inches and millimeters.

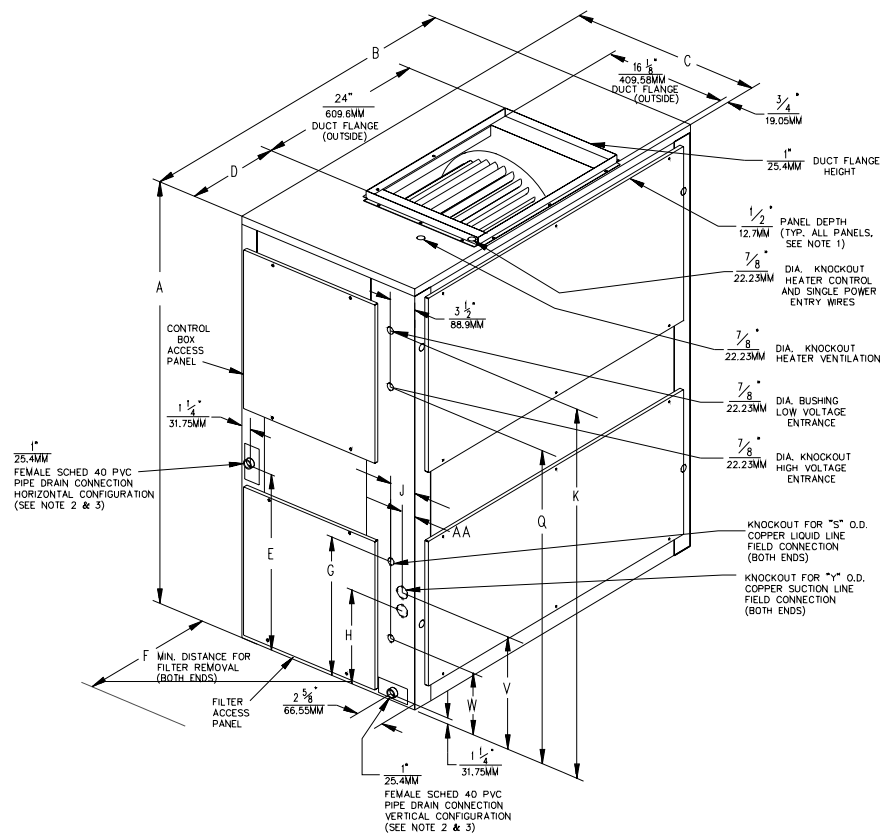
TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100"/2540 mm MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER DOES NOT POUR DIRECTLY ON UNIT.



Dimensional Data

Figure DD-8 — TWE050A Air Handlers

All dimensions are in inches and millimeters.



NOTES:

1. LENGTH, WIDTH, AND HEIGHT DIMENSIONS DO NOT INCLUDE 1/2" ACCESS PANEL DEPTH.
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON EITHER END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION. PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF PAN ON DRAIN CONNECTION END OF UNIT.

Table DD-1 — Air Handler Dimensions — in. (mm)

| Model No. | A | B | C | D | E | F | G | H |
|-----------|-----------------|----------------|----------------|---------------|--------------------|----------------|--------------------|--------------------|
| TWE050A | 48 (1219.20) | 38 (965.20) | 22 (558.80) | 8 (203.20) | 19-1/2 (495.30) | 26 (660.40) | 15-7/8 (403.23) | 14-1/8 (358.78) |

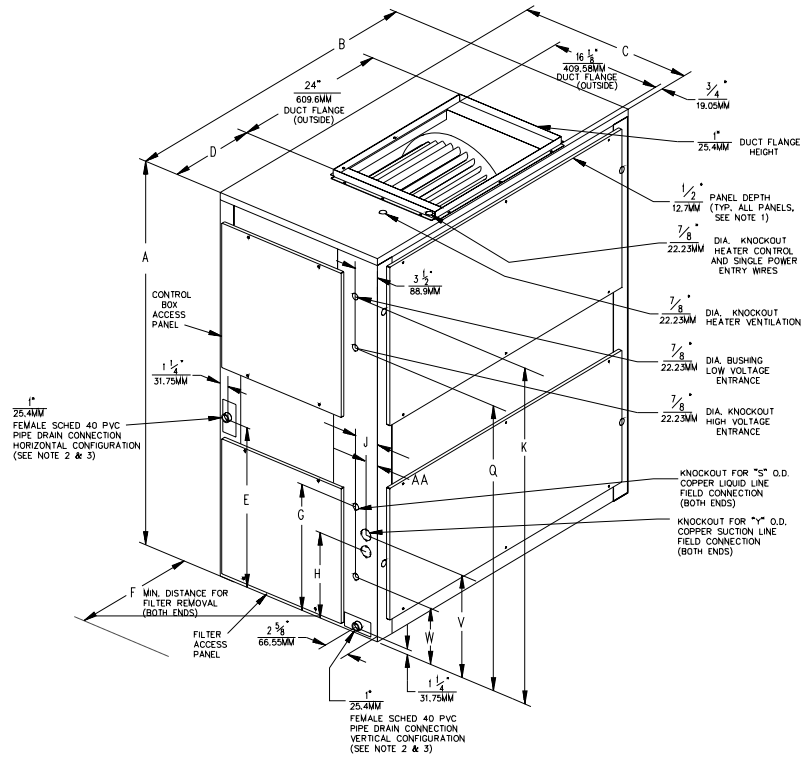
Table DD-1 — (Continued)

| Model No. | J | K | Q | S | V | W | Y | AA |
|-----------|------------------|---------------------|--------------------|---------------|---|---|------------------|------------------|
| TWE050A | 1-7/8 (47.63) | 42-1/8 (1069.98) | 34-5/8 (879.48) | 3/8 (9.53) | — | — | 1-1/8 (28.58) | 1-7/8 (47.63) |

Dimensional Data

Figure DD-9—TWE075A, TWE100A, 100B Air Handlers

All dimensions are in inches and millimeters.



NOTES:

1. LENGTH, WIDTH, AND HEIGHT DIMENSIONS DO NOT INCLUDE 1/2" ACCESS PANEL DEPTH.
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON EITHER END OF UNIT IN EITHER THE VERTICAL OR HORIZONTAL CONFIGURATION. PLASTIC DRAIN PAN ACCESS PLATE ON THE END OF UNIT OPPOSITE DRAIN CONNECTION MUST BE REMOVED TO SLIDE DRAIN PAN OUT OF UNIT FOR CLEANING. ACCESS PLATE MUST BE RE-INSTALLED AFTER SLIDING DRAIN PAN BACK INTO UNIT.
3. IF PERIODIC DRAIN PAN CLEANING IS REQUIRED, ALLOW ROOM FOR PARTIAL REMOVAL OF PAN ON DRAIN CONNECTION END OF UNIT.

Table DD-2 — Air Handler Dimensions — in. (mm)

| Tons | Model No. | A | B | C | D | E | F | G | H |
|---------|-----------|-----------|-----------|----------|----------|----------|----------|----------|----------|
| TWE075A | | 54 | 47-1/2 | 25 | 11-3/4 | 22-3/8 | 22 | — | 17-3/4 |
| | | (1371.60) | (1206.50) | (635.00) | (298.45) | (568.33) | (558.80) | — | (450.85) |
| TWE100A | | 54 | 63-12 | 25 | 19-3/4 | 22-3/8 | 22 | — | 17-3/4 |
| | | (1371.60) | (1612.90) | (635.00) | (501.65) | (568.33) | (558.80) | — | (450.85) |
| TWE100B | | 54 | 63-1/2 | 25 | 19-3/4 | 22-3/8 | 22 | 20-1/8 | 16 |
| | | (1371.60) | (1612.90) | (635.00) | (501.65) | (568.33) | (558.80) | (511.18) | (406.40) |

Table DD-2 — (Continued)

| Model No. | J | K | Q | S | V | W | Y | AA |
|-----------|----------|-----------|----------|---------|----------|----------|---------|---------|
| TWE075A | 4 | 45-1/4 | 38-1/8 | 1/2 | — | 15 | 1-3/8 | 2 |
| | (101.60) | (1149.35) | (968.38) | (12.70) | — | (381.00) | (34.93) | (50.80) |
| TWE100A | 4 | 45-1/4 | 38-1/8 | 1/2 | — | 15 | 1-3/8 | 2 |
| | (101.60) | (1149.35) | (968.38) | (12.70) | — | (381.00) | (34.93) | (50.80) |
| TWE100B | 2-1/8 | 45-1/4 | 38-1/8 | 3/8 | 18-3/4 | 14 | 1-1/8 | 2-1/8 |
| | (53.98) | (1149.35) | (968.38) | (9.53) | (476.25) | (355.60) | (28.58) | (53.98) |

Dimensional Data

Figure DD-10 — TWE050A, 075A 100A; TWE100B Air Handlers

All dimensions are in inches and millimeters.

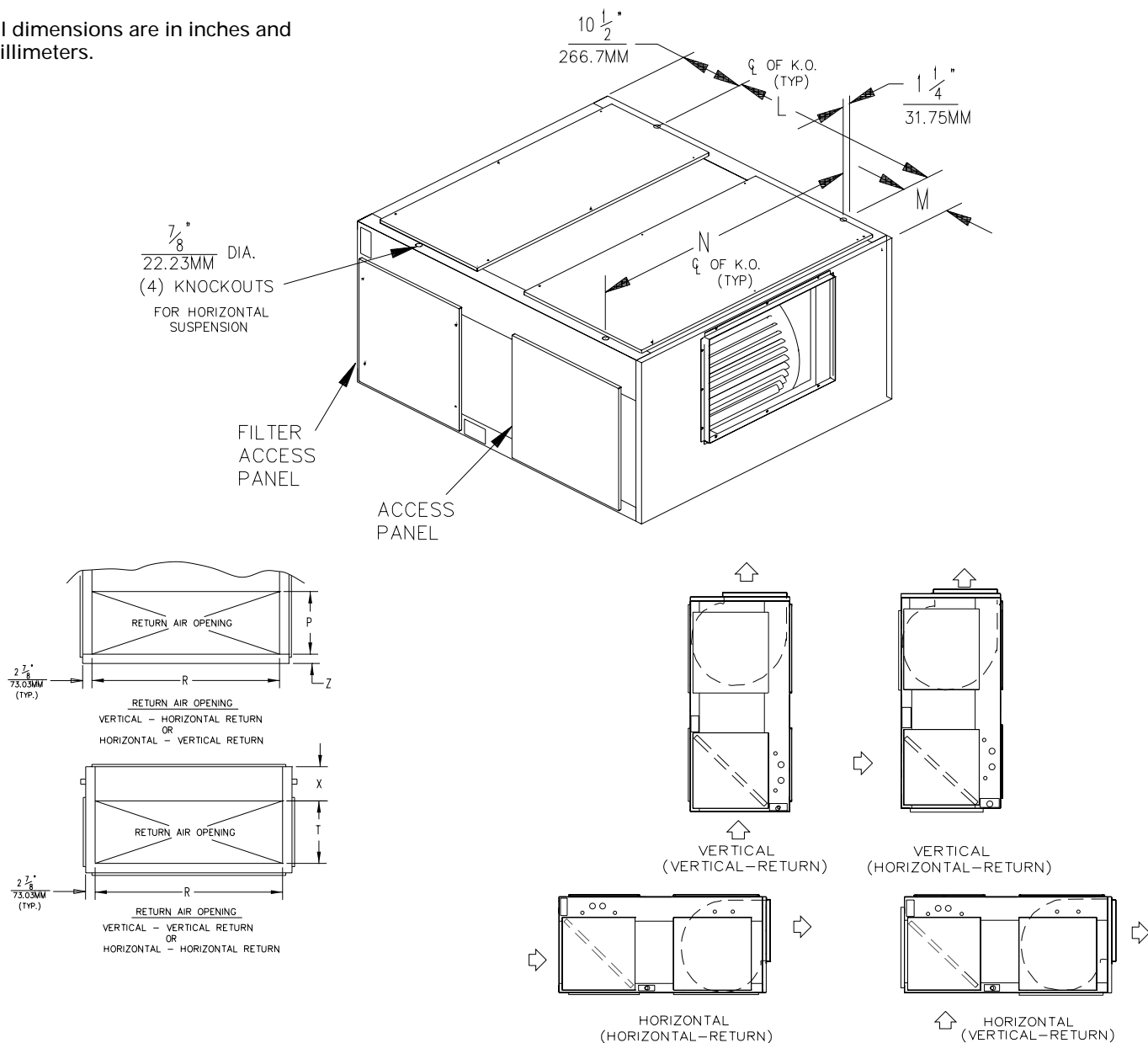


Table DD-3 — Air Handler Dimensions — in. (mm)

| Model No. | L | M | N | P | R | T | X | Z |
|---------------|--------------------|-------------------|---------------------|--------------------|---------------------|--------------------|-------------------|------------------|
| TWE050A | 34-5/8 (879.48) | 2-7/8 (73.03) | 35-5/8 (904.88) | 12-1/4 (311.15) | 32-1/4 (819.15) | 12-1/2 (317.50) | 7-5/8 (193.68) | 2 (50.80) |
| TWE075A | 36-7/8 (936.63) | 6-5/8 (168.28) | 45-1/8 (1146.18) | 16-1/8 (409.58) | 41-3/4 (1060.45) | 16-1/4 (412.75) | 6-7/8 (174.63) | 1-3/4 (44.45) |
| TWE100A, 100B | 36-7/8 (936.63) | 6-5/8 (168.28) | 61-1/8 (1552.58) | 16-1/8 (409.58) | 57-3/4 (1466.85) | 16-1/4 (412.75) | 6-7/8 (174.63) | 1-3/4 (44.45) |

All dimensions are in inches and millimeters.



-
- Diagram illustrating the connection of two units:
- Two vertical units are shown side-by-side, connected by a horizontal line.
 - The left unit is labeled **VERTICAL (VERTICAL-RETURN)**.
 - The right unit is labeled **VERTICAL (HORIZONTAL-RETURN)**.
 - The resulting horizontal unit is labeled **HORIZONTAL (HORIZONTAL-RETURN)** and **HORIZONTAL (VERTICAL-RETURN)**.

Dimensional Data

Figure DD-12 — TWE155B and 200B Air Handlers
All dimensions are in inches and millimeters.

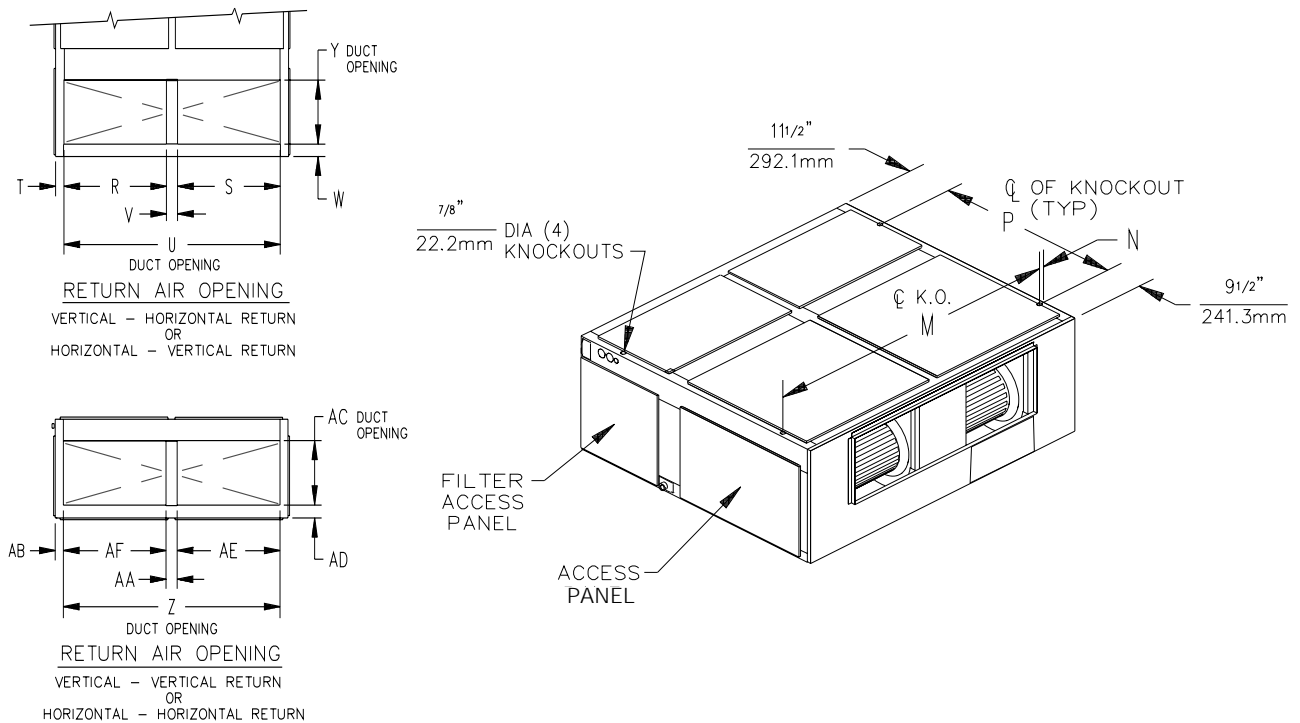


Table DD-4— Air Handler Dimensions — in. (mm)

| Model No. | A | B | C | D | E | F | G | H | J | K |
|-----------|---------------------|---------------------|--------------------|--------------------|-------------------|----------------|--------------------|---------------------|---------------------|--------------------|
| TWE155B | 69 (1752.60) | 79-1/2 (2019.30) | 27-5/8 (701.68) | 12-3/8 (314.33) | 1-5/8 (41.28) | 26 (660.40) | 25-1/8 (638.18) | 49-1/8 (1247.78) | 56-1/4 (1428.75) | 15-1/2 (393.70) |
| TWE200B | 71-7/8 (1825.63) | 92-1/2 (2349.50) | 30-1/2 (774.70) | 18-7/8 (479.43) | 4-1/2 (114.30) | 31 (787.40) | 28 (711.20) | 51-7/8 (1317.63) | 59-1/8 (1501.78) | 18-1/8 (460.38) |

Table DD-4 — (Continued)

| Model No. | L | M | N | P | R | S | T | U | V | W |
|-----------|--------------------|---------------------|------------------|---------------------|--------------------|--------------------|-------------------|---------------------|-------------------|------------------|
| TWE155B | 19-1/2 (495.30) | 77-1/4 (1962.15) | 1-1/4 (31.75) | 48 (1219.20) | 35 (889.00) | 35 (889.00) | 2-7/8 (73.03) | 73-7/8 (1876.43) | 3-3/4 (95.25) | 3-3/8 (85.73) |
| TWE200B | 20-7/8 (530.23) | 89-1/4 (2266.95) | 1-3/4 (44.45) | 50-7/8 (1292.23) | 39-1/8 (993.78) | 39-1/8 (993.78) | 4-7/8 (123.83) | 82-7/8 (2105.03) | 4-5/8 (117.48) | 3-1/8 (79.38) |

Table DD-4 — (Continued)

| Model No. | Y | Z | AA | AB | AC | AD | AE | AF |
|-----------|--------------------|---------------------|-------------------|-------------------|--------------------|------------------|--------------------|--------------------|
| TWE155B | 18 (457.20) | 73-7/8 (1876.43) | 3-3/4 (95.25) | 2-7/8 (73.03) | 18 (457.20) | 3-5/8 (92.08) | 35 (889.00) | 35 (889.00) |
| TWE200B | 20-1/8 (511.18) | 82-7/8 (2105.03) | 4-5/8 (117.48) | 4-7/8 (123.83) | 20-1/8 (511.18) | 3 (76.20) | 39-1/8 (993.78) | 39-1/8 (993.78) |

Dimensional Data

Figure DD-13 — Electric Heater for TWE050, 075, 100 Air Handlers

All dimensions are in inches and millimeters.

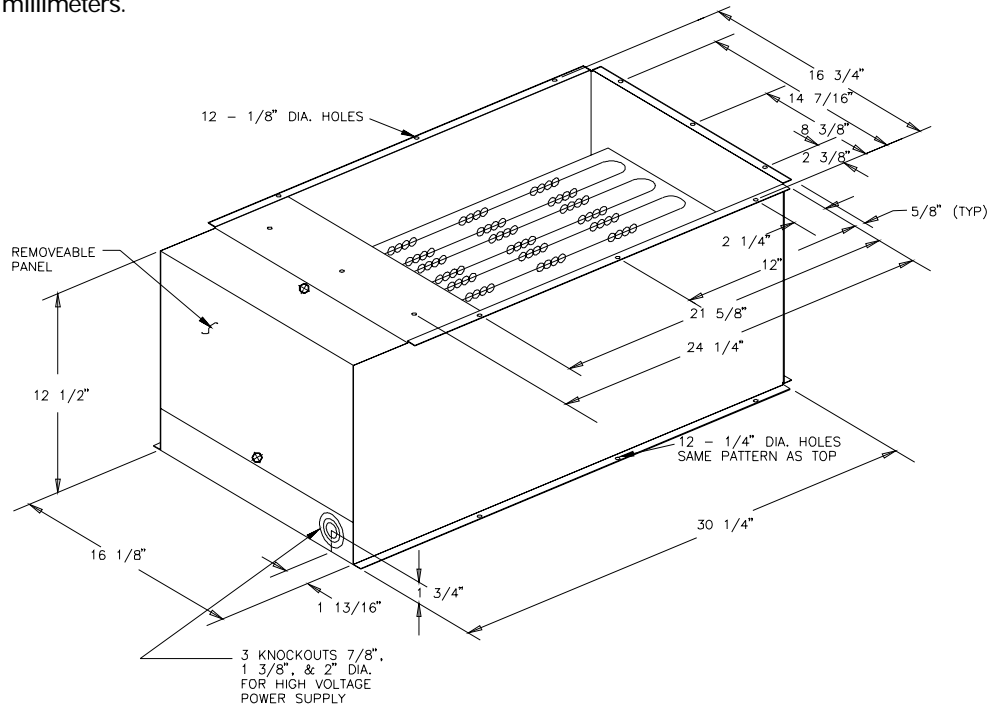
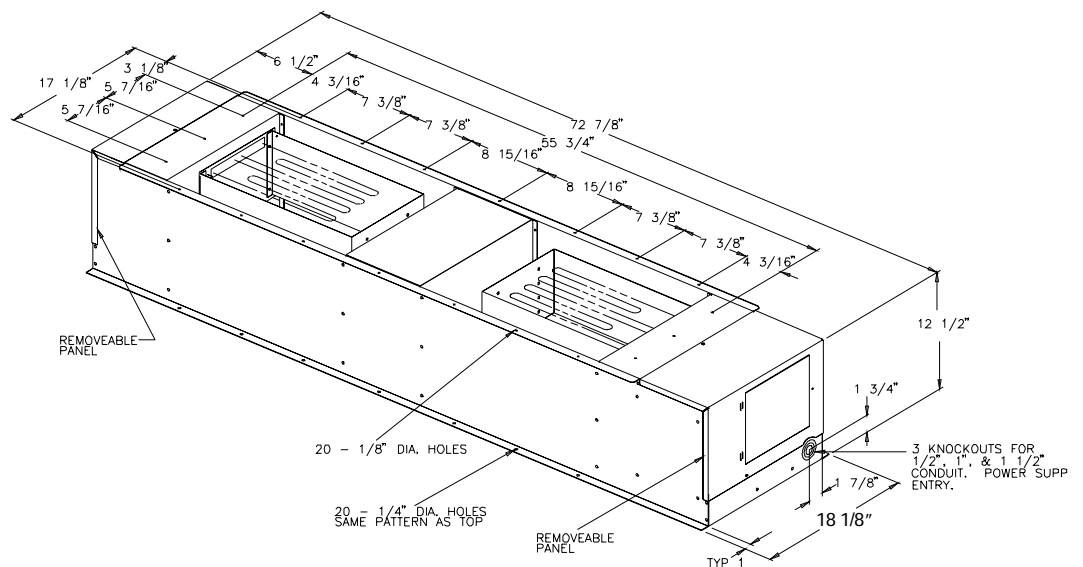


Figure DD-14 — Electric Heater for TWE155 and 200 Air Handlers



Dimensional Data

Figure DD-15 — Discharge Plenum and Grille
All dimensions are in inches and millimeters.

Table DD-5 — Discharge Plenum And Grille Dimensions — in. (mm)

| Model | Model No. | A | B | C |
|--------|------------|--|---|---------------|
| TWE050 | BAYPLNM015 | 37 ¹ / ₈ (962) | 21 ⁷ / ₈ (555.6) | 28 (711.2) |
| TWE075 | BAYPLNM016 | 47 ¹ / ₂ (1206.5) | 25 (635) | 28 (711.2) |
| TWE100 | BAYPLNM017 | 63 ¹ / ₂ (1612.9) | 25 (635) | 28 (711.2) |

**Table DD-6 — Discharge Plenum And Grille Dimensions — in. (mm)
For Use with Electric Heat**

| Model | Model No. | A | B | C |
|--------|------------|--|---|---------------|
| TWE050 | BAYPLNM025 | 37 ¹ / ₈ (962) | 21 ⁷ / ₈ (555.6) | 29 (736.6) |
| TWE075 | BAYPLNM026 | 47 ¹ / ₂ (1206.5) | 25 (635) | 29 (736.6) |
| TWE100 | BAYPLNM027 | 63 ¹ / ₂ (1612.9) | 25 (635) | 29 (736.6) |
| TWE155 | BAYPLNM028 | 79 ¹ / ₂ (2019.3) | 27 ⁵ / ₈ (701.7) | 35 (889) |
| TWE200 | BAYPLNM029 | 92 ¹ / ₂ (2349.5) | 30 ³ / ₈ (771.5) | 35 (889) |

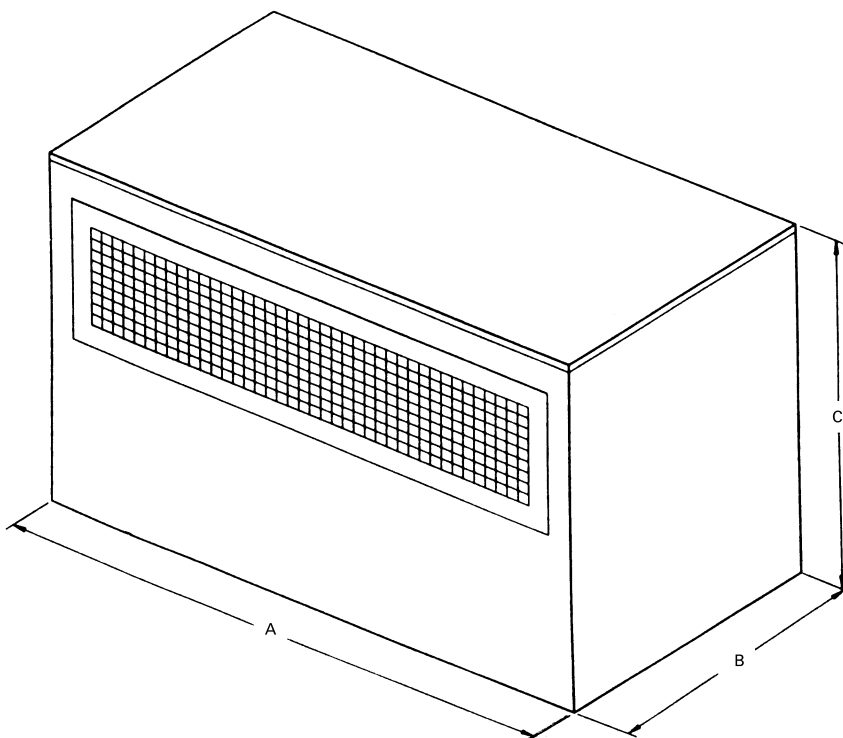
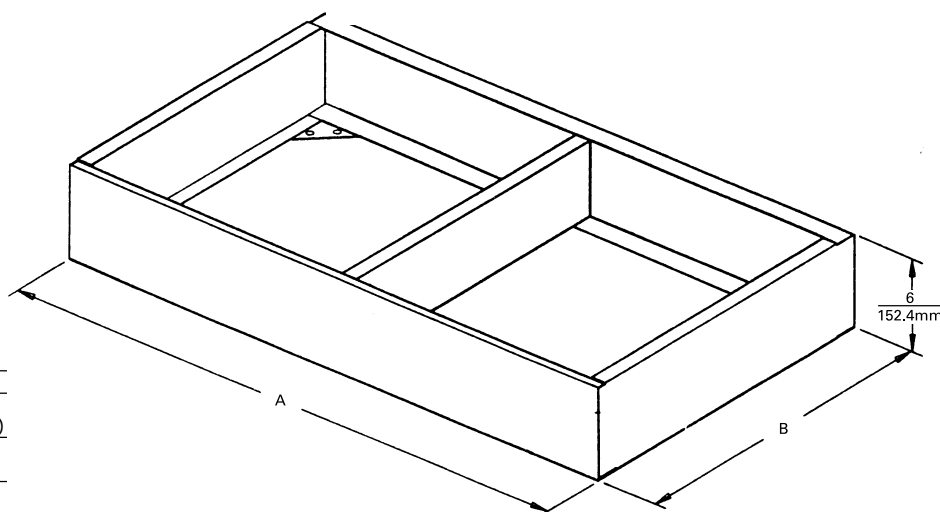


Figure DD-16 — Subbase

Table DD-7 — Subbase Dimensions — in. (mm)

| Model | Model No. | A | B |
|--------|------------|--|---|
| TWE050 | BAYBASE001 | 38 (965.2) | 22 (558.8) |
| TWE075 | BAYBASE002 | 47 ¹ / ₂ (1206.5) | 25 (635) |
| TWE100 | BAYBASE003 | 63 ¹ / ₂ (1612.9) | 25 (635) |
| TWE155 | BAYBASE004 | 79 ¹ / ₂ (2019.3) | 27 ⁵ / ₈ (701.7) |
| TWE200 | BAYBASE005 | 92 ¹ / ₂ (2349.5) | 30 ³ / ₈ (771.5) |



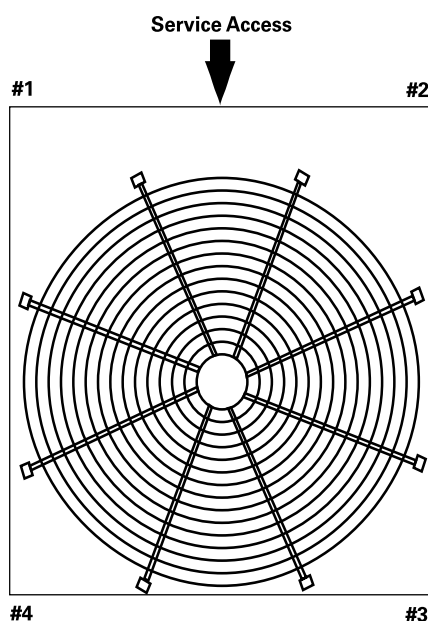
Weights

Table W-1 — Unit and Corner Weights — Net Lbs (kg)

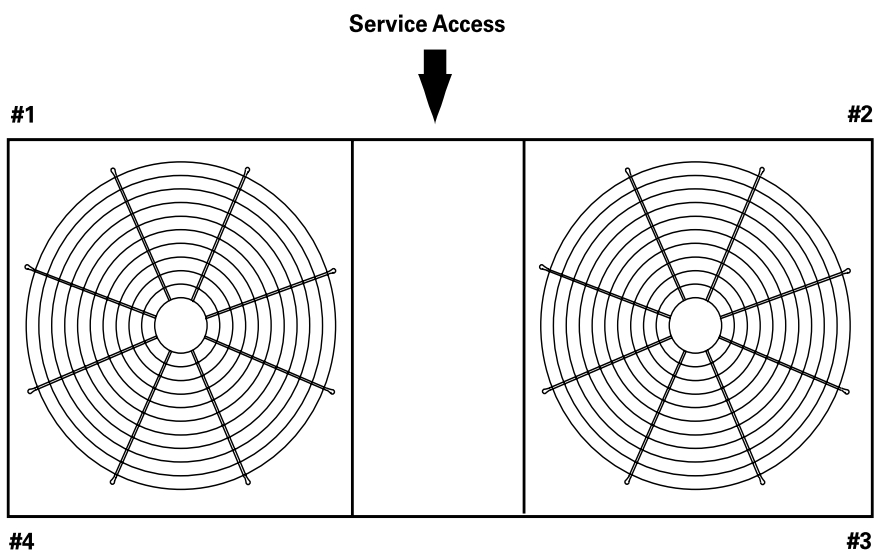
| Unit Model No. | Shipping Maximum (lbs) | Net Maximum (lbs) | Corner Weights | | | |
|-------------------|---------------------------|----------------------|----------------|-------------|------------|------------|
| | | | 1 | 2 | 3 | 4 |
| TTA075A | 370 (167.8) | 326 (147.9) | 105 (47.6) | 83 (37.6) | 61 (27.7) | 77 (34.9) |
| TTA085A, 100A | 443 (200.9) | 399 (181.0) | 149 (67.6) | 116 (52.6) | 78 (35.4) | 100 (45.4) |
| TTA100B | 481 (218.2) | 427 (193.7) | 133 (60.3) | 135 (61.2) | 87 (39.5) | 85 (38.6) |
| TTA100C | 492 (223.2) | 437 (198.2) | 139 (63.1) | 122 (55.3) | 87 (39.5) | 95 (43.1) |
| TTA125B | 481 (218.2) | 427 (193.7) | 133 (60.3) | 135 (61.2) | 87 (39.5) | 85 (38.6) |
| TTA155B | 764 (346.6) | 679 (308.0) | 196 (88.9) | 193 (87.5) | 144 (65.3) | 146 (66.2) |
| TTA155C | 764 (346.6) | 679 (308.0) | 196 (88.9) | 193 (87.5) | 144 (65.3) | 146 (66.2) |
| TTA200B | 948 (430.0) | 863 (391.5) | 247 (112.0) | 244 (110.7) | 185 (83.9) | 187 (84.8) |

Table W-2 — Accessory Weights — Net Lbs (kg)

| Unit Model No. | RIS Isolators | Steel Spring Isolators | Anti-Short Cycle Timer | Coil Guard | Thermostats | Low Ambient |
|-------------------|------------------|---------------------------|---------------------------|---------------|-------------|----------------|
| TTA075A | 2 (.9) | 12 (5.4) | 1 (.5) | 8 (3.6) | 1 (.5) | 23 (10.4) |
| TTA100A | | | | | | |
| TTA100B | 2 (.9) | 12 (5.4) | 1 (.5) | 11 (5.0) | 1 (.5) | 23 (10.4) |
| TTA100C | | | | | | |
| TTA125B | 2 (.9) | 12 (5.4) | 1 (.5) | 20 (9.1) | 1 (.5) | 23 (10.4) |
| TTA155B | 2 (.9) | 12 (5.4) | 1 (.5) | 22 (10.0) | 1 (.5) | 23 (10.4) |
| TTA155C | | | | | | |
| TTA200B | 2 (.9) | 12 (5.4) | 1 (.5) | 34 (15.4) | 1 (.5) | 23 (10.4) |



TTA075, 100, 125



TTA155, 200

Weights

Table W-3 — Air Handlers and Corner Weights — lb (kg)

| Unit Model No. | Shipping Maximum | Net Maximum | Corner Weights — Vertical | | | | Corner Weights — Horizontal | | | |
|-------------------|---------------------|----------------|---------------------------|------------|------------|------------|-----------------------------|-------------|-------------|------------|
| | | | 1 | 2 | 3 | 4 | A | B | C | D |
| TWE050A | 298 (135.2) | 232 (105.2) | 59 (26.8) | 59 (26.8) | 59 (26.8) | 59 (26.8) | 54 (24.5) | 64 (29.0) | 64 (29.0) | 54 (24.5) |
| TWE075A | 388 (176.0) | 317 (143.8) | 79 (35.8) | 79 (35.8) | 79 (35.8) | 79 (35.8) | 73 (33.1) | 81 (36.7) | 84 (38.1) | 77 (34.9) |
| TWE100A | | | | | | | | | | |
| TWE100B | 439 (199.1) | 392 (177.8) | 98 (44.5) | 98 (44.5) | 98 (44.5) | 98 (44.5) | 95 (43.1) | 101 (45.8) | 101 (45.8) | 95 (43.1) |
| TWE155B | 754 (342.0) | 692 (313.9) | 173 (78.5) | 173 (78.5) | 173 (78.5) | 173 (78.5) | 156 (70.8) | 174 (78.9) | 190 (86.2) | 170 (77.1) |
| TWE200B | 886 | 816 | 204 (92.5) | 204 (92.5) | 204 (92.5) | 204 (92.5) | 179 (81.2) | 221 (100.2) | 228 (103.4) | 185 (83.9) |

NOTE:

1. If application requires steam or hot water heating coils, field supplied isolators must be utilized.

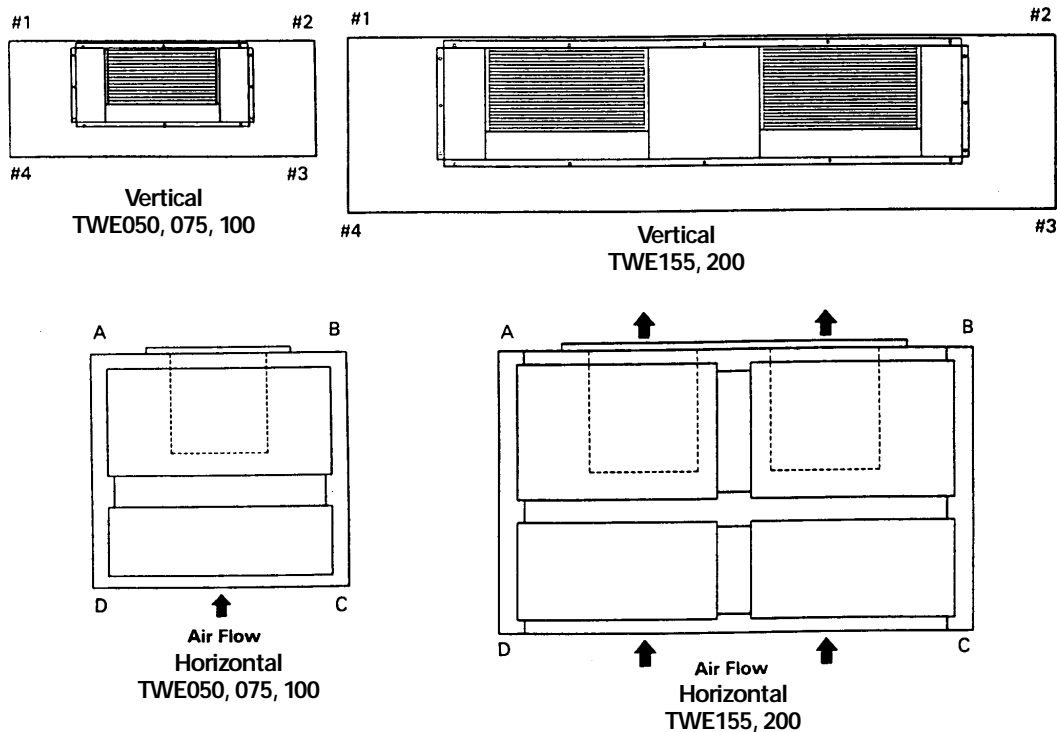


Table W-4 — Accessory Weights — Net Lbs (kg)

| Unit Model No. | Discharge Plenum And Grille ¹ | Discharge Plenum And Grille ² | Discharge Plenum And Grill ³ | Return Air Grille | Electric Heat Min./Max. | Subbase | Oversized Motor | RIS Isolator Floor Mount | RIS Isolator Suspended Mount |
|-------------------|--|--|---|----------------------|-------------------------------|-----------|--------------------|-----------------------------------|---------------------------------------|
| TWE050A | 63 (28.6) | 58 (26.3) | 93 (42.2) | 3 (1.4) | 32/43 (14.5/19.5) | 14 (6.4) | 31 (14.1) | 2 (.91) | 9 (4.1) |
| TWE075A | 78 (35.4) | 73 (33.1) | 123 (55.8) | 5 (2.3) | 27/45 (12.2/20.4) | 19 (8.6) | 48 (21.8) | 2 (.91) | 6 (2.7) |
| TWE120A | | | | | | | | | |
| TWE120B | 97 (44.0) | 92 (41.7) | 156 (70.8) | 7 (3.2) | 27/45 (12.2/20.4) | 23 (10.4) | 50 (22.7) | 2 (.91) | 7 (3.2) |
| TWE180B | — | 124 (56.2) | 230 (104.3) | 10 (4.5) | 79/100 (35.8/45.4) | 27 (12.2) | 80 (36.3) | 2 (.91) | 7 (3.2) |
| TWE240B | — | 145 (65.8) | 264 (119.8) | 12 (5.4) | 79/100 (35.8/45.4) | 31 (14.1) | 88 (39.9) | 2 (.91) | 9 (4.1) |

NOTES:

1. For use when no heat is supplied.

2. For use with electric heat.

Mechanical Specifications

Condensing Units

General

Units shall be assembled on heavy gauge steel mounting/lifting rails and shall be weatherproofed. Units shall include a reciprocating compressor(s), plate fin condenser coil(s), fan(s) and motor(s), control(s), and holding charge of nitrogen. Operating range shall be between 115°F (46.1°C) and 50°F (10°C) in cooling as standard from the factory. Units shall be rated in accordance with ARI Standard 340/360 or 365.

Casing

Unit casing shall be constructed of 18 gauge zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. The surface of the unit shall be tested 500 hours in salt spray test. Units shall have removable end panels which allow access to all major components and controls.

Refrigeration System – Single Compressor

TTA075A, TTA100A units shall have a single refrigeration circuit. Each refrigeration circuit has an integral subcooling circuit. A refrigeration filter drier shall be provided as standard. The TTA075, TTA100 units shall have both a liquid line and suction gas line service valve with gauge port.

TTA075A, TTA100A units shall have one direct-drive, hermetic scroll compressor with centrifugal oil pump providing positive lubrication to moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Crankcase heater, discharge line thermostat, and current-sensitive motor overloads shall be included for maximum protection. Scroll type compressor shall provide inherently low vibration and noise by having no suction and discharge valves. External high and low pressure cutout devices shall be provided. Evaporator defrost control provided in indoor blower coil shall prevent compressor slugging by temporarily interrupting compressor operation when low evaporator coil temperatures are encountered.

Refrigeration System – Dual Compressor

TTA100B, TTA125B, TTA155B, TTA200B units shall have two separate and independent refrigeration circuits. Each refrigeration circuit shall have an integral subcooling circuit. A refrigeration filter drier shall be provided as standard. Units shall have both a liquid line and suction gas line service valve with gauge port.

TTA100B, TTA125, TTA155B, TTA200B units shall have two Trane direct-drive, hermetic scroll compressors with centrifugal oil pump and provide positive lubrication to all moving parts. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Crankcase heater, discharge line thermostat, and current-sensitive motor overloads shall be included for maximum protection. Scroll compressor shall provide inherently low vibration and noise by having no suction and discharge valves. External high and low pressure cutout devices shall be provided. Evaporator defrost control provided in indoor blower coil shall prevent compressor slugging by temporarily interrupting compressor operation when low evaporator coil temperatures are encountered.

Refrigeration System — Dual Manifolder Compressors

TTA 100C and TTA155C units shall have a single refrigeration circuit with an integral subcooling circuit. A refrigeration filter drier shall be provided as standard. Units shall have both a liquid line and suction gas line service valve with gauge port.

The units shall have two scroll compressors manifolded together. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of nameplate voltage. Crankcase heater, discharge line thermostat, and current-sensitive motor overloads shall be included for maximum protection. Scroll type compressor shall provide inherently low vibration and noise by having no suction and discharge valves. External high and low pressure cutout devices shall be provided. Evaporator defrost control provided in the indoor blower coil shall prevent compressor slugging by temporarily interrupting compressor operation when low evaporator coil temperatures are encountered.

Condenser Coil

Coils shall be internally finned or smooth bore $\frac{3}{8}$ " (10 mm) copper tubes mechanically bonded to a configured aluminum plate fin as standard. Coil shall be factory pressure and leak tested to 420 psig (2,899 kPa) air pressure. Metal grilles with PVC coating for coil protection is optional.

Condenser Fan And Motor(s)

Direct-drive, statically and dynamically balanced, 26 or 28-inch (660 or 711 mm) propeller fan(s) with aluminum blades and electro-coated steel hubs shall be used in draw-thru vertical discharge position. Either permanently lubricated totally enclosed or open construction motors shall be provided and shall have built-in current and thermal overload protection. Motor(s) shall have be either ball or sleeve bearing type.

Controls

Condensing units shall be completely factory wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Control wiring shall be 24-volt control circuit which includes fusing and control transformer. Units shall provide



Mechanical Specifications

Condensing Units

external location for mounting a fused disconnect device. Time delay timers to prevent compressors in dual compressor units from simultaneous start-up and anti-recycle timers are available as optional accessories.

Low Ambient Operation

Standard units shall start and operate to approximately 50°F (10°C) when matched with Trane air handlers and coils. Optional head pressure control accessory permits operation to 0°F (-17.8°C).

Accessories

Low Ambient Head Pressure Control

— This accessory shall modulate the RPM of unit outdoor fan motor in response to outdoor ambient temperature and discharge line pressure. Accessory provides unit cooling operation to outdoor temperatures of 0° F (-17.8° C).

Vibration Isolation Packages — This accessory shall reduce transmission of noise and vibration to building structures, equipment, and adjacent spaces. Packages shall be available in either neoprene-in-shear or spring-flex types.

Hot Gas Bypass Kit — This accessory shall be available to provide capacity modulation.

Time Delay Relay — This accessory shall prevent compressors in dual compressor unit from combine on line simultaneously. Time shall be 24-volt,

60 cycle, with four minute timing period.

Anti-Short-Cycle Timer — This accessory shall prevent rapid on-off compressor cycling in light load conditions by not allowing compressor to operate for 5-7 minutes upon shutdown. This accessory shall consist of a 24-volt, solid state timing device with either 5 or 7 minute fixed-off timing period.

Condenser Coil Guard — Metal grille with PVC coating shall be provided to alleviate coil damage.

Factory Installed Accessories

Black Epoxy Coated Condenser Coil —

This option is designed to provide corrosion protection of air cooled condenser coils for seacoast application. The black epoxy coil protection is a factory applied thermoset vinyl coating, bonded to normal aluminum fin stock. The uniform thickness of the bonded vinyl layer exhibits excellent corrosion protection in salt spray tests performed in accordance with ASTM B177.

Mechanical Specifications

Air Handlers

General

Air handler units shall be completely factory assembled including coil, condensate drain pan, fan motor(s), filters, and controls in an insulated casing that can be applied in either vertical or horizontal configuration. Units shall be rated and tested in accordance with ARI standard 210/240, 340/360.

Casing

Unit casing shall be constructed of zinc coated, heavy gauge, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Casing shall be completely insulated with cleanable, foil faced, fire-retardant, permanent, odorless glass fiber material. All insulation edges shall be either captured or sealed. Knockouts shall be provided for unit electrical power and refrigerant piping connections. Captive screws shall be standard on all access panels.

Refrigeration System

The TWE050A, TWE075A, TWE100A units shall have a single refrigeration circuit and the TWE050A, TWE075A, TWE100B, TWE155B, TWE200B units shall have dual refrigeration circuits. Each refrigeration circuit is controlled by a factory installed thermal expansion valve.

Evaporator Coil

Configured aluminum fin surface shall be mechanically bonded to $\frac{3}{8}$ " (10 mm) internally enhanced copper tubing and factory pressure and leak tested at 375 psig (2,586 kPa). Coil is arranged for draw-thru airflow and shall provide a double sloped condensate drain pan constructed of PVC plastic. The drain pan shall be removable for cleaning. The condensate drain pan can be installed in any of four positions allowing for vertical or horizontal application and providing external connections on either side of the unit.

Evaporator Fan

Double inlet, double width, forward curved, centrifugal-type fan(s) with adjustable belt drive shall be standard. Thermal overload protection shall be standard on motor. Fan and motor bearings shall be permanently lubricated. Oversized motors shall be available as an option for high static application.

Controls

Magnetic evaporator fan contactor, low voltage terminal strip, check valve(s), and single point power entry shall be included. All necessary controls shall be factory-installed and wired. Evaporator defrost control shall be included to prevent compressor slugging by temporarily interrupting compressor operation when low evaporator coil temperatures are encountered.

Filters

One inch, throwaway filters shall be standard on TWE050A, TWE075A, TWE100A and TWE100B model air handlers. Filters shall be accessible from the side coil access panel. Filter rack can be field converted to two-inch capability. Two-inch throwaway filters shall be standard on TWE155B and TWE200B models.

Accessories

Electric Heaters — Approved electric heat modules shall be available for installation directly on fan discharge. Electric heaters shall be available in a wide range of capacities with one or two-stage control, single-point electric power connection and terminal strip connections. Electric heater elements shall be constructed on heavy-duty nickel chromium elements internally wye connected on 480/600 volt, three phase and delta connected on 208/240 volt, three phase. Each 208/240 volt,

three phase heater shall have pilot duty with secondary backup fuse links for automatic reset of high limit controls. Each 480/600 volt heater shall have automatic line break high limit controls.

Discharge Plenums and Grilles —

Accessory discharge plenums shall be available for vertical, free discharge applications. Plenums shall be constructed of heavy-gauge, zinc coated, galvanized steel finished with baked enamel to match the air handler unit. Grilles shall be satin finished aluminum and have four-way adjustable louvers.

Return Air Grilles — Accessory return air grille shall be provided for vertical front, free return applications. Grilles shall be installed in place of the front lower side panel. Grille shall be satin finished aluminum with non-adjustable louvers.

Mounting Subbase — This accessory shall be available for vertical floor mount configurations. Subbase shall be constructed of heavy gauge, zinc coated, galvanized steel with baked enamel finish to match air handler unit. Subbase is required in the vertical air flow application for condensate drain trapping and when isolators are required.

Vibration Isolators — This accessory shall reduce transmission of noise and vibration to building structures, equipment, and adjacent spaces. Packages shall be available in either neoprene-in shear or spring-flex types in floor or suspended mountings.

Oversized Motors — Field installed oversized motors shall be available for high static pressure applications.

Control Options

Standard Indoor Thermostats — Two stage heating and cooling operation or one stage heating and cooling thermostats shall be available in either manual or automatic changeover.

Programmable Electronic Night Setback Thermostat — The option shall provide heating setback and cooling setup with 7-day programming capability.



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