Product Catalog

Split System Air Conditioners Odyssey™ with Symbio™ Controls

Cooling Condenser, 5 to 20.9 Tons, 50 Hz
Air Handler, 4.6 to 20.9 Tons, 50 Hz

September 2021

SS-PRC029Y-EN

Introduction

Odyssey™ Split Systems offer a wide range of options, allowing you to easily match unit tonnage with the right load requirements.

When a project calls for the convenience and cost efficiency of a unitary product, where a rooftop unit isn't right, Odyssey may be the answer. It provides heating and cooling in a split configuration that's unique in its versatility while staying true to our standards for efficiency and reliability. And with the Symbio® digital controller on board, Odyssey introduces smart building capabilities that take service, comfort and sustainability beyond the expected.

With wide network availability, flexible applications, installation ease, built-in reliability and easy servicing, Odyssey will meet any number of customer applications. Add to that Trane's outstanding customer service and you have the formula to make Odyssey the clear choice for continued customer satisfaction.

Wide network availability

A broad distribution network provides owners, maintenance personnel, contractors, etc., the means to get their hands on equipment when they need it. Whether it's an emergency replacement or a new construction project in its infancy stages, Odyssey products meet an array of needs at the right time and right price.

Flexible applications

No matter what the application, Odyssey provides the solution. A broad array of models and tonnages are available with single or dual compressors, single or dual circuits and numerous accessories. Condensing units can be installed on the ground or on a rooftop along with extended piping runs, while air handlers can be free discharge on the ground or horizontally suspended with long duct runs from a ceiling. Should application challenges arise, Odyssey delivers.

Easy to install

Small footprints and low weights combined with factory installed components like TXVs, filter driers, etc., reduce installation time and cost. Colored connectors and wiring, as well as factory-tested units make Odyssey the right choice.

Built-in reliability

Keeping in mind that productivity only occurs when equipment is operational,Trane has taken the steps to ensure that Odyssey is up and running. Early indicators such as phase/reversal monitors and loss of charge protection provide diagnostics which prevent failure and provide years of worry-free service and operation.

Easy to service

When preventive maintenance or service is required, technicians will find efficient access to both air handlers and condensers. Panels provide complete, easy access coupled with standardized cabinets in which all components are located in proximity. Odyssey's improved design results in minimum service times and costs.

With these capabilities, Odyssey provides customers high efficiency and superior performance for the best all-around value in the market today.

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Trademarks

Revision History

- Updated Symbio™ jobsite connections
- Minor edits included

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Features

Split System Overview

Unlike typical split systems on the market, Odyssey offers easy servicing, built-in reliability, ease of installation and outstanding customer service. And because today's owners are very cost-conscious when it comes to service and maintenance, the Odyssey Split System was designed with direct input from service contractors. This valuable information helped to design a product that would get the service person off the job quicker and save the owner money.

Flexible Applications

Odyssey offers outstanding standard features enhanced by a variety of factory and field installed options, multiple control options, rigorously tested proven designs and superior product and technical support. Because of this, Odyssey offers ultimate flexibility. Units are built to order in our standard "shortest in the industry" ship cycle time. Odyssey is available with single, dual and manifolded compressor options. Single compressor outdoor units feature a single refrigeration circuitry, lowering job installation costs by requiring only one set of refrigerant lines.

Equally important, Odyssey offers single refrigerant circuit/capacity unloading models. The unloading units feature dual manifolded scroll compressors with two stages of capacity modulation and a single refrigeration circuit. Dual compressor/dual circuit models 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 the refrigerant circuits are independent. Dual compressor models also save on energy costs. During light load conditions, only one compressor will operate to save energy.

Unmatched Product Support

One of our finest assets, Trane Sales Representatives are a support group that can assist you with:

- Product
- Application
- Service
- Training
- Special Applications
- Specifications
- Computer Programs and much more

Rigorous Testing

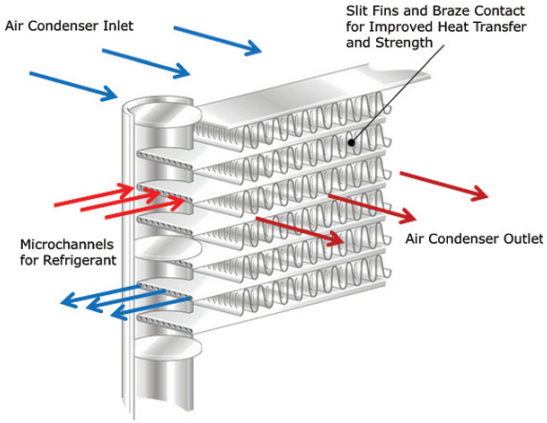
Our units are rigorously rain tested to ensure water integrity. Actual shipping tests are performed to determine packaging requirements. Units are test shipped around the country to determine the best packaging. Factory shake and drop tests are used as part of the package design process to help assure that the unit arrives at the job site in top condition. Rigging tests include lifting a unit into the air and letting it drop one foot, assuring that the lifting lugs and rails hold up under stress. A 100% coil leak test is performed at the factory. The condenser coils are leak tested at 660 psig and evaporators to 450 psig. All parts are inspected at the point of final assembly. Sub-standard parts are identified and rejected immediately. Every unit receives a 100% unit run test before leaving the production line to ensure it lives up to rigorous Trane requirements.

Other Features

Microchannel Condenser Coil

Microchannel condensing coils are all-aluminum coils with fully-brazed construction. This design reduces risk of leaks and provides increased coil rigidity — making them more rugged on the jobsite. Their flat streamlined tubes with small ports and metallurgical tube-to-fin bond allow for exceptional heat transfer. Microchannel all-aluminum construction provides several additional benefits:

- Light weight (simplifies coil handling)
- Easy to recycle
- Minimize galvanic corrosion



Standard and Optional Features

Figure 1. Compressors

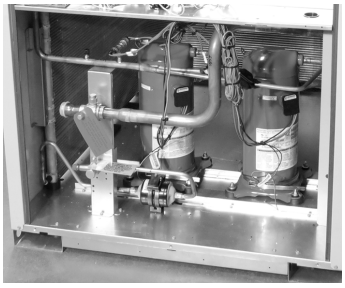
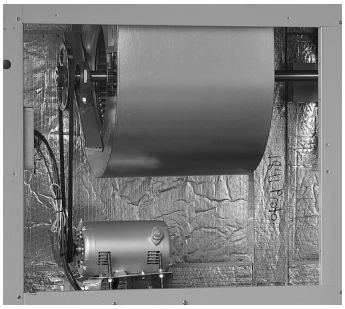


Figure 2. Belt drive motor



Airflow Distribution — Odyssey can replace an older machine with old ductwork and, in many cases, improve the comfort through better air distribution.

Anti-Short Cycle Timing — The Symbio™ 700 controller provides a 3 minute minimum "ON" time and 3 minute "OFF" time for compressors to enhance compressor reliability by assuring proper oil return.

Belt Drive Motors — For additional static requirements, Odyssey Split Systems offer standard belt drive motors to meet and exceed a wide range of airflow needs.

Colored Connectors and Wiring — Interconnecting wiring between components is standardized using colored and keyed connectors and colored wires, helping to save time and money tracing wires and diagnosing the unit.

Compressors — Odyssey Split Systems contain the best compressor technology available to achieve the highest possible performance. Dual compressors perform very well under part load cooling conditions and system back- up applications. Dual compressors are available on 4.6-20.9 ton models and allow for efficient cooling utilizing 2-stages of compressor operation.

Complete Coat™ Microchannel Condenser Coil — This cathodic, epoxy-type electro-disposition coating is formulated for high edge builds and provides excellent resistance and durability in potentially corrosive environments due to alkalies, acids, alcohols, petroleum, seawater, salty air, etc. Available for Microchannel units only.

Convertible Units — The air handlers ship in a horizontal configuration. They can be easily converted to vertical by simply repositioning the drain pan.

Crankcase Heaters — These band heaters provide improved compressor reliability by warming the oil to prevent migration during off-cycles or low ambient conditions.

Dual Sloped Drain Pans— Every Odyssey unit has a non-corrosive, removable, double sloped drain pan that's easy to clean and reversible to allow installation of drain trap in two positions on either side of the unit.

Duct flanges — An optional field installed kit that can save time and money.

Easy Access Low Voltage Connections — Thermostat and other low voltage control wiring connections are made directly to the Symbio 700 and other boards in the system. Screw-type pressure connectors are detachable from the boards for easy connection of control wires – saving cost and time.

Electric Heaters — Electric heat modules are available in a variety of voltages and capacities.

Foil Faced Insulation — All internal air handler surfaces have cleanable foil-faced insulation. All edges are either captured or sealed to ensure insulation fibers do not get into the airstream.

Hail/Vandal Guards — These coil guards shall be either factory or field installed for condenser coil protection. This feature protects the condenser coil from vandalism and/or hail damage. When ordered factory installed, it also adds additional shipping protection.

High Static Motor — Available on many models, this high static motor accessory extends the capability of the standard unit.

High and Low Voltage Control Panel — High voltage components and connections are isolated from low voltage and covered with a sheet metal panel. This allows setup and test parameters at the Symbio™ 700 display and the VFD keypad display to be safely viewed and adjusted in the low voltage section of the control panel.

High Pressure Control — All units include High Pressure Control as standard.

Low Ambient Cooling — All Odyssey units have cooling capabilities down to 0°F as standard. At temperatures below 50°F, some reduction in cooling capacity can be expected. When the optional Low Ambient Accessory kit is field installed, the full capacity of the unit is available down to 0°F.

Low Voltage Connections — Low voltage wiring connects directly to the control boards in the unit via detachable connectors. This makes it easy for the installer to attach the wires and then snap the connectors into place.

Phase Monitor/Reversal Protection — Phase monitor shall provide 100% protection for motors and compressors against problems caused by phase loss, phase imbalance, and phase reversal. Phase monitors are equipped with an LED that provides an ON or FAULT indicator.

Quick-Access Panels — Remove a few screws for access to the standardized internal components and wiring.

Single Point Power — A single electrical connection powers the unit.

Single Side Service — Single side service is standard on all units.

Standardized Components — Components are placed in the same location on all Odyssey units. Because of these standardized components throughout the Odyssey line, contractors/ owners can stock fewer parts.

Symbio™ 700 — Standard on Odyssey condensers, the Symbio™ 700 controller provides exceptional machine control with a focus on system reliability and application flexibility. The Symbio controller provides direct access to the Symbio Service and Installation mobile application for easy setup and troubleshooting with no special tools. A wide range of system integration options (Non-communicating, BACnet®, LonTalk®, etc.) provide options to meet the needs of your application.

Thermal Expansion Valve with Bypass Check Valves — This feature is standard on all indoor units.

Unit Cabinet — The compact cabinet takes up less room and is less costly to ship. The design also ensures water integrity.

Table 1. Odyssey features – standard and optional

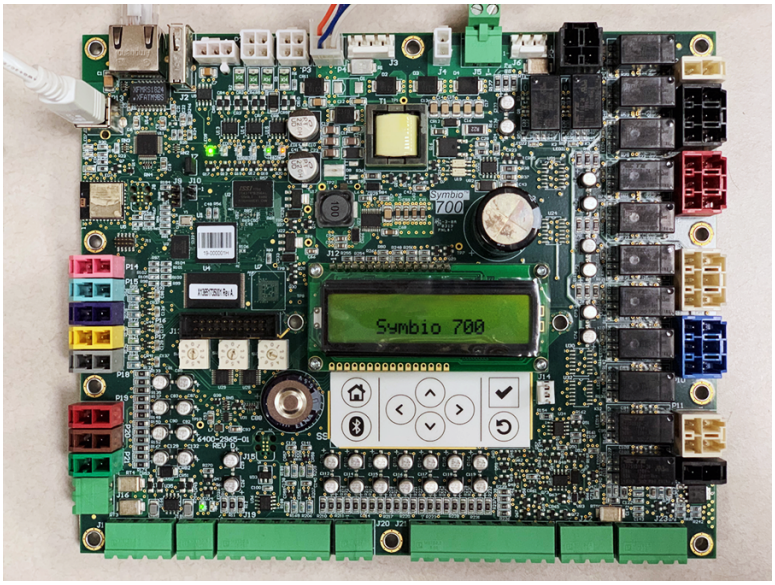
	Standard Features	Options[a]	
		Factory Installed	Field Installed
1-year Limited Parts Warranty	X		
5-year Limited Compressor Warranty	X		
Belt Drive Motors	X		
Colored Connectors and Wiring	X		
Complete Coat™ Microchannel Condenser Coil		X	
Compressor Discharge Temperature Limit (DTL)	X		
Convertible Airflow	X		
Crankcase Heaters	X		
Easy Access Low Voltage Connections	X		
Electric Heaters			X
Filters	X		
Filters – 2″ MERV 13			X
Foil-Faced and Edge Captured Insulation	X		
Hail/Vandal Guards		X	X
High Pressure Control	X		
High Static Motor Kit[b]			X
Hot Gas Bypass			X
IAQ Dual Sloped and Removable Drain Pans	X		
Low Ambient Cooling			X
Liquid Line Refrigerant Drier	X		
Low Pressure Control	X		
Low Static Motor Kit[b]			X
Low Voltage Circuit Protection	X		
Phase Loss/Reversal Monitor	X		
Quick Access Panels	X		
Scroll Compressors	X		
Single Point Power	X		
Single Side Service	X		
Standardized Components	X		
Symbio™ Controls	X		
Thermal Expansion Valve	X		
Vibration Isolators			X

[a] Refer to model number description for option availability or contact Product Support.
[b] Available on constant volume units only. See Accessories chapter for more information.

Standard Controls

Symbio™ 700 Controls

Figure 3. Symbio 700 board



Symbio 700 controls provide unit control for heating, cooling, and ventilating, utilizing input from sensors that measure outdoor and indoor temperature. Symbio also provides outputs for building automation systems and expanded diagnostics. Quality and reliability are enhanced through Symbio control and logic:

- Prevents the unit from short cycling, considerably improving compressor life.
- Ensures the compressor will run for a specific amount of time which allows oil to return for better lubrication, enhancing the reliability of the compressor.
- Reduces the number of components required to operate the unit, reducing possibilities for component failure.

Installation and Service

The Symbio™ 700 control platform provides a user-friendly, onboard interface that makes setup and continued operation easy – or users can take advantage of the Symbio™ Service and Installation Mobile App for setup, troubleshooting, and operation. Both the Symbio onboard user interface and mobile app simplify troubleshooting by displaying active alarms. Symbio eliminates the need for field-installed, anti-short cycle timer and time delay relays. The wiring of the low voltage connections to the unit and zone sensors is simple, making installation easy.

Testing

Symbio™ 700 requires no special tools to run the unit through its paces. Simply navigate to the 'Service' section of the user interface or the 'Utilities' section of the Symbio™ Service and Installation Mobile App and enter the test section. Here the unit can be placed in the desired operating condition for a pre-determined amount of time supporting troubleshooting efforts in the field. The Symbio 700 will return to normal control when the user exits test mode or when the pre-determined, user-selected Service Test time has expired.

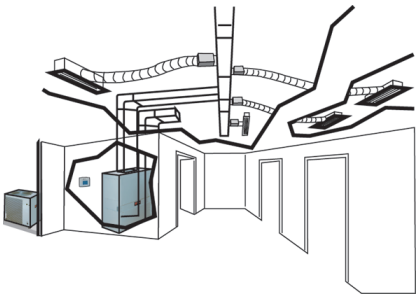
Other Benefits

- Symbio™ 700 built-in anti-shortcycle timer, time delay relay and minimum "on" time control functions are factory tested to assure proper operation.
- Symbio 700 softens electrical "spikes" by staging on fans, compressors and heaters.
- Intelligent Fallback is a benefit to the building occupant. If a component goes astray, the unit will continue to operate at predetermined temperature setpoint.

- Intelligent Anticipation is a standard feature. It functions continuously as Symbio 700 and zone sensor(s) work together in harmony to provide much tighter comfort control than conventional electromechanical thermostats.
- The Symbio 700 design is standardized across the board, ensuring a lower cost to owners.

Additional Controls

VariTrac® Building Automation System — When Trane's changeover VAV System for light commercial applications is coupled with the unit, it provides the latest in technological advances for comfort management systems and can allow thermostat control in every zone served by VariTrac.



Frostat™ — This control (a standard feature on all air handlers) utilizes a capillary bulb embedded in the face of the evaporator coil which monitors coil temperature to inhibit evaporator icing and protect the compressor. Useful for applications with low leaving air temperatures, low airflow and/or high latent load applications.

LonTalk® Communications Interface — The LonTalk communications interface allows the unit to communicate as a Tracer LON® device or directly with generic LonTalk Network Building Automation System Controls.

BACnet® Communication Interface (BCI) — The BACnet Communication Interface allows the unit to communicate directly with a generic open protocol BACnet MS/TP or IP Network Building Automation Control System.

Zone Sensors/Thermostats— Available in programmable, automatic and manual styles.

Table 2. Odyssey control options – standard and optional

	Standard Features	Options[a]	
		Factory Installed	Field Installed
BACnet® Communication Interface (BCI)		X	
Froststat™ - Evaporator Defrost Control (EDC)	X		
LonTalk® Communications Interface (LCI)		X	
Symbio™ 700 Microprocessor Controls	X		
Thermostat			X
Zone Sensor			X

[a] Refer to model number description for option availability or contact Product Support.

Accessories

Cooling Condenser

Table 3. TTA Accessories

Model	Used With
Coil (Hail/Vandal) Guard	
BAYGARD063*	TTA060, TTA076
BAYGARD064*	TTA101
BAYGARD065*	TTA126
BAYGARD066*	TTA156, TTA201
BAYGARD067*	TTA251
Universal Hot Gas Bypass Kit	
BAYHGBP010*	All models
Rubber Isolators	
BAYISLT004* (blue)	TTA060, TTA076
BAYISLT005* (black)	TTA101
BAYISLT009* (red)	TTA126, TTA156
BAYISLT010* (green)	TTA201, TTA251
Steel Spring Isolators	
BAYISLT023* (red)	TTA060, TTA076, TTA101*DA
BAYISLT024* (black)	TTA101*DC/D, TTA126, TTA156
BAYISLT025* (yellow)	TTA201, TTA251
Service Valve Kit	
BAYVALV001*	TTA0604*A, TTA0764*A, TTA1014*A/C
BAYVALV003*	TTA0604*D, TTA0764*D, TTA1014*D
BAYVALV004*	TTA1264*D
BAYVALV005*	TTA1564*D, TTA2014*D
BAYVALV007*	TTA1654*C, TTA2014*C
BAYVALV008*	TTA2514*C
Low Ambient — On/Off Fan Control[a] [b]	
BAYLOAMS10* (External Mount, small cabinets)[c]	TTA060, TTA076, TTA101, TTA126
BAYLOAMS20* (Internal mount, large cabinets)	TTA156, TTA201, TTA251
Transducer Kit for Head Pressure Control (BAYLOAM435, 436, 437)	
BAYLOTR001*[d]	TTA060**D, TTA076**D, TTA101**D, TTA126**D
LonTalk Communications Interface[e]	
BAYLTCI005*	All Models
Expansion Module Kit	
BAYMODU002* (XM30)	All Models
BAYMODU004* (XM32)	All Models

[a] Cycles fan on/off (no modulating).
[b] When BAYLOAM is used, the Evaporator Defrost Control (EDC) must be disabled in the Symbio 700 controller configuration.
[c] Kit mounts external to the outdoor unit and operates by sensing ambient temperature and discharge pressure.
[d] BAYLOTR001* required when BAYLOAMS10* kits are used with units that have 2 compressors (dual circuit) and 1 condenser fan.
[e] Field installed LonTalk interface requires installation of Symbio control board with Advanced Diagnostics (not included).

Air Handler

Table 4. TWE Accessories

Model	Used With
Base (Subbase)	
BAYBASE009*	TWE051
BAYBASE0010*	TWE072, TWE076
BAYBASE0011*	TWE101
BAYBASE0012*	TWE126, TWE156
BAYBASE0013*	TWE201, TWE251
Drip Kit	
BAYDRKT006*	TWE051
BAYDRKT007*	TWE072, TWE076
BAYDRKT008*	TWE101
BAYDRKT009*	TWE126, TWE156
BAYDRKT010*	TWE201, TWE251
Duct Flange Kit	
BAYDUCT010*	TWE051, TWE060, TWE072, TWE076, TWE090, TWE101, TWE120
BAYDUCT020*	TWE126, TWE150, TWE156, TWE180, TWE201, TWE240, TWE251, TWE300
Filters – 2” MERV 13	
BAYFILT001*	TWE051
BAYFILT002*	TWE072, TWE076
BAYFILT003*	TWE101
BAYFILT004*	TWE126, TWE156
BAYFILT005*	TWE201, TWE251
High Static Motor Kits(a)	
BAYHSMT105* — 1.0HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE051*DA
BAYHSMT108* — 1.5HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE072*DB, TWE076*DA/B
BAYHSMT110* — 2.0HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE072*DB, TWE076*DA/B
BAYHSMT112* — 2.0HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE101*DA/B
BAYHSMT114* — 2.0HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE126*DB
BAYHSMT117* — 3.0HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE126*DB
BAYHSMT120* — 3.0HP (50Hz) with Motor Sheave and Fan Sheave (Stock Belt used)	TWE156*DB
BAYHSMT126* — 5.0 HP (50Hz) with Motor Sheave, Fan Sheave and Belt	TWE201*DB
Rubber Isolators(b) (c) (d)	
BAYISLT004* (Floor — Blue)	TWE051, TWE072, TWE076, TWE101
BAYISLT009* (Floor — Red)(e)	TWE126, TWE156
BAYISLT010* (Floor — Green)(e)(b)	TWE201, TWE251
BAYISLT012* (Suspended —Red/Green)	TWE126, TWE156
BAYISLT013* (Suspended —Red/Green)(d)	TWE051
BAYISLT014* (Suspended — Green)(d)	TWE072, TWE076
BAYISLT015* (Suspended — Green/Black)(d)	TWE101
BAYISLT016* (Suspended —Red/Green)	TWE201, TWE251
Steel Spring Isolators(c)	
BAYISLT019* (Floor — Red)(e)(b)	TWE051, TWE072, TWE076, TWE101
BAYISLT021* (Floor — Black)(e)(b)	TWE126, TWE156
BAYISLT032* (Floor — Black/Yellow)(e)(b)	TWE201, TWE251
BAYISLT028* (Suspended — Tan)	TWE051
BAYISLT029* (Suspended — Red)	TWE072, TWE076, TWE101
BAYISLT030* (Suspended — Black)	TWE126, TWE156
BAYISLT031* (Suspended — Black/Yellow)	TWE201, TWE251

Table 4. TWE Accessories (continued)

Model	Used With
Low Static Drive Kit[a]	
BAYLSMT001*	TWE201
Plenum[f]	
BAYPLNM015* (Discharge Plenum & Grille)[f]	TWE051
BAYPLNM016* (Discharge Plenum & Grille)[f]	TWE072, TWE076
BAYPLNM017* (Discharge Plenum & Grille)[f]	TWE101
BAYPLNM018* (Discharge Plenum/Hydronic Coil Plenum & Grille)[f]	TWE126, TWE156
BAYPLNM019* (Discharge Plenum/Hydronic Coil Plenum & Grille)[f]	TWE201, TWE251
BAYPLNM020* (Hydronic Coil Discharge Plenum & Grille)[f]	TWE051
BAYPLNM021* (Hydronic Coil Discharge Plenum & Grille)[f]	TWE072, TWE076
BAYPLNM022* (Hydronic Coil Discharge Plenum & Grille)[f]	TWE101
BAYPLNM030* (Electric Heat Discharge Plenum & Grille)[f]	TWE051
BAYPLNM031* (Electric Heat Discharge Plenum & Grille)[f]	TWE072, TWE076
BAYPLNM032* (Electric Heat Discharge Plenum & Grille)[f]	TWE101
BAYPLNM033* (Electric Heat Discharge Plenum & Grille)[f]	TWE126, TWE156
BAYPLNM034* (Electric Heat Discharge Plenum & Grille)[f]	TWE201, TWE251
Return Air Grille	
BAYGRLE001*	TWE051
BAYGRLE002*	TWE072, TWE076
BAYGRLE003*	TWE101
BAYGRLE004*	TWE126, TWE156
BAYGRLE005*	TWE201, TWE251
Symbio™ Options Module Kit	
BAYMODU001*	All TWE units with Digit 15 = 1 and Electric heater installed
Transformer	
BAYTFMR017* - 100 VA Transformer (400 V)	All TWE072 – TWE251 380-415V Hz unit
Water Kits	
BAYWATR022* (Steam Coil Enclosure)[f]	TWE051
BAYWATR023* (Steam Coil Enclosure)[f]	TWE072, TWE076
BAYWATR024* (Steam Coil Enclosure)[f]	TWE101
BAYWATR025* (Steam Coil Enclosure)[f]	TWE126, TWE156
BAYWATR026* (Steam Coil Enclosure)[f]	TWE201, TWE251
BAYWATR027* (Hot Water Coil Enclosure)[f]	TWE051
BAYWATR028* (Hot Water Coil Enclosure)[f]	TWE072, TWE076
BAYWATR029* (Hot Water Coil Enclosure)[f]	TWE101
BAYWATR030* (Hot Water Coil Enclosure)[f]	TWE126, TWE156
BAYWATR031* (Hot Water Coil Enclosure)[f]	TWE201, TWE251
Wire Kit — 180° Blower Discharge Reversal Kit[g]	
BAYWRKT002*	TWE051, TWE072, TWE076, TWE101

(a) Used on constant volume air handlers only.
(b) Requires use of subbase accessory.
(c) In units with steam or hot water coils applied vertically or horizontally, check IOM for proper Isolator Kit selection.
(d) Do not use if blower will operate less than 600 RPM.
(e) When the air handler is in the vertical position and close proximity trapping of condensate is required, use of subbase is required.
(f) When installed horizontally, plenum/water coil must be self-supported. When adding vibration isolators, see Isolator Installation Guide (ACC-SVN92*-EN) for isolator and location matrix.
(g) Cannot be used on TWE126–201, due to motor mount location.

Electric Heaters

Table 5. Electric heaters

Model	Used With
4.6–8.33 Ton Electric Heater Selection	
BAYHTRN405* — 3.13/3.74 kW Heater 380/415 / 3 Phase	TWE051, TWE072*D, TWE076, TWE101
BAYHTRR410* — 6.25/7.46 kW Heater 380/415 / 3 Phase	TWE051, TWE072*D, TWE076, TWE101
BAYHTRR415* — 9.37/11.17 kW Heater 380/415 / 3 Phase	TWE051, TWE072*D, TWE076, TWE101
BAYHTRN425* — 15.63/18.64 kW Heater 380/415 / 3 Phase	TWE051, TWE072*D, TWE076, TWE101
BAYHTRN435* — 21.86/26.08 kW Heater 380/415 / 3 Phase	TWE101
10.4–20.9 Ton Electric Heater Selection	
BAYHTRP410* — 6.25/7.46 kW Heater 380/415 / 3 Phase	TWE126, TWE156, TWE201, TWE251
BAYHTRP420* — 12.50/14.92 kW Heater 380/415 / 3 Phase	TWE126, TWE156, TWE201, TWE251
BAYHTRP430* — 18.76/22.38 kW Heater 380/415 / 3 Phase	TWE126, TWE156, TWE201, TWE251
BAYHTRP450* — 31.26/37.29 kW Heater 380/415 / 3 Phase	TWE126, TWE156, TWE201, TWE251

Application Considerations

Application of this product should be within the cataloged 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 representative.

180° Blower Rotation

The 4.6, 6.25, and 8.33 ton standard air handler blower section can be rotated 180° to change the discharge pattern. This modification must be done in the field and requires an additional kit. See unit installation guide.

Low Ambient Cooling

As manufactured, all Odyssey units have cooling capabilities down to 0°F. At temperatures below 50°F, some reduction in cooling capacity can be expected. When the optional Low Ambient Accessory kit is field installed, the full capacity of the unit is available down to 0°F. When using these units with control systems such as bypass changeover Variable Air Volume, make sure to consider the requirement for a head pressure control to allow low ambient cooling.

Figure 4. Typical split system application

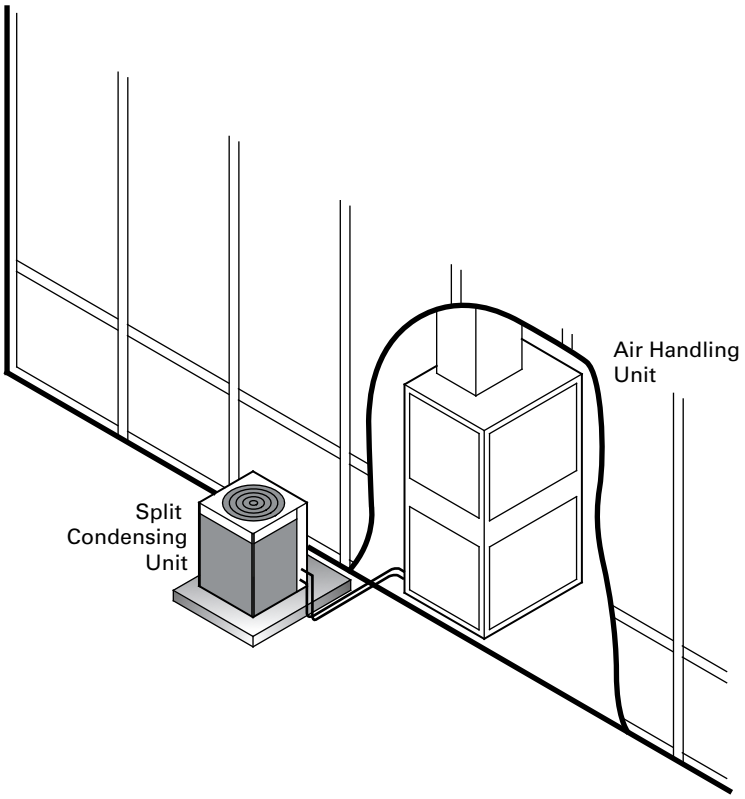


Figure 5. Typical horizontal air handler application

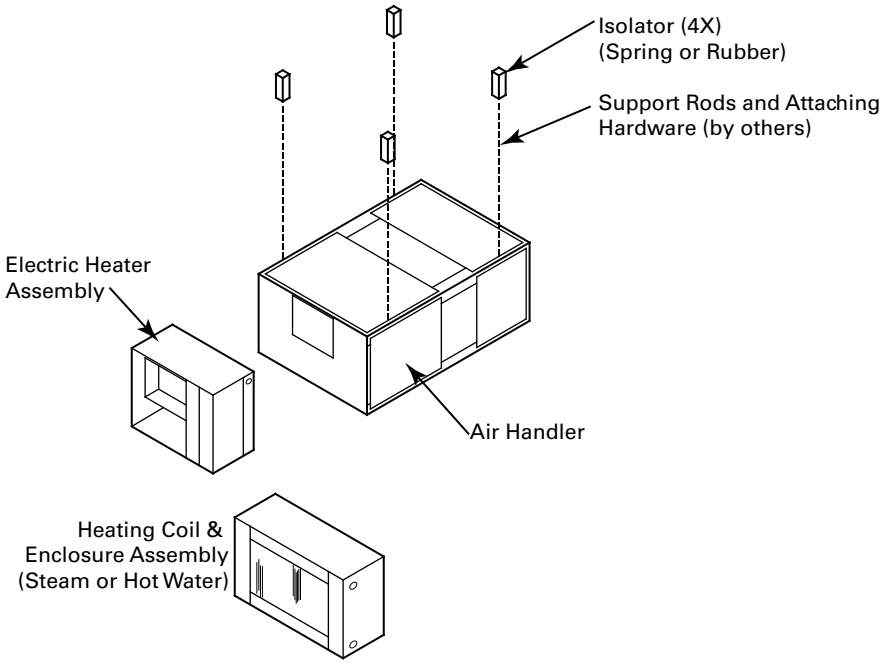
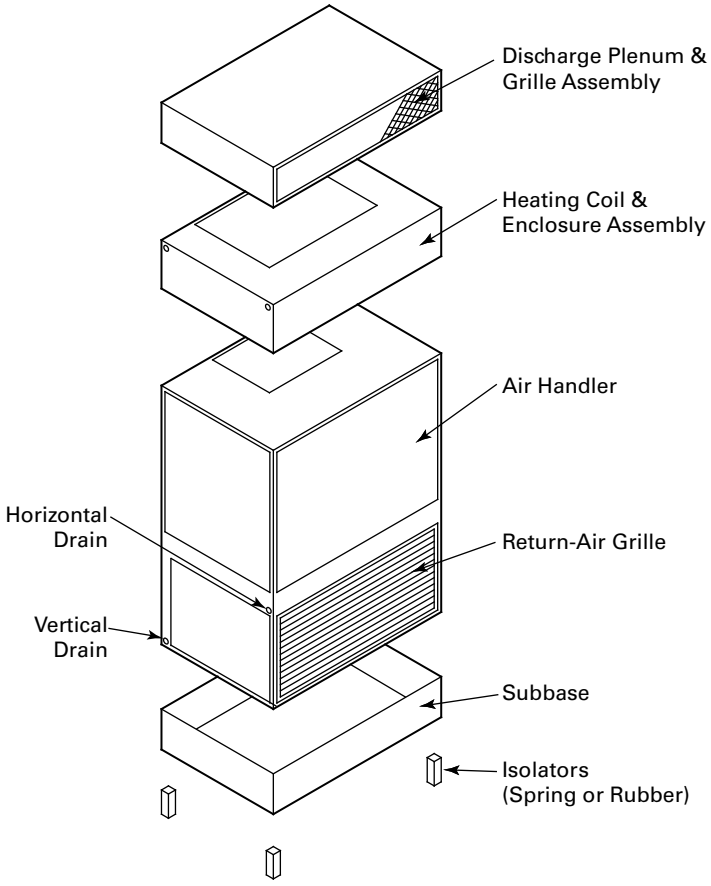


Figure 6. Typical vertical air handler application



Selection Procedure

Cooling Capacity

1. Calculate the building's total and sensible cooling loads at design conditions, using standardized calculation methods.
2. Size the equipment using the gross cooling capacity tables. Match the cooling loads at design conditions. For example, if the following specifies the building cooling requirements:

   Electrical Characteristics: 415/50/3
   Summer Design Conditions: Entering Evap Coil—80°F DB/67°F WB (27°C DB/19°C WB), Outdoor Ambient—95°F (35°C)
   Total Cooling Load: 75 MBh (22 kW)
   Sensible Cooling Load: 53 MBh (15.5 kW)
   Airflow: 2500 cfm (4248 m^3/h)
   External Static Pressure: 0.77 inches of water gauge (192 Pa)
3. Use Table 15, p. 31 to determine that TTA0764DA with TWE0764DA has a gross cooling capacity of 82.0 MBh (24.0 kW) and 63.2 MBh (18.5 kW) sensible capacity at 95°F DB (35°C) ambient and 2500 cfm (4248 m^3/h) with 80°F DB/67° F WB (27°C DB/19°C WB) air entering the evaporator.
4. To find the net cooling capacities, fan motor heat must be subtracted. Determine the total unit static pressure:

   External Static Duct System: 0.84 in. (210 Pa)
   Standard Filter: 0.10 in. (25 Pa)
   Supplementary Electric Heat: 0.16 in. (57 Pa)
   Total Static Pressure: 1.10 in. (274 Pa)

   Notes:

   - *The Evaporator Fan Performance Table has included the effect of a 1 in. (249 Pa) filter already. Therefore, the actual Total Static Pressure is 1.10 - 0.10 = 1.00 in. (274 - 25 = 249 Pa) . With 2500 cfm (4248 m^3/h) and 1.00 inches (249 Pa), Table 87, p. 85 shows 1.51 Bhp (ultra high static drive kit required).*
   - *This formula can be used to calculate Fan Motor Heat:*

     3.15 X Bhp = MBh
     3.15 X 1.51 = 4.75 MBh
     Net Total Cooling Capacity = 82.0 MBh - 4.75 MBh = 77.25 MBh (22.6 kW)
     Net Sensible Cooling Capacity = 63.2 MBh - 4.75 MBh = 58.45 MBh (17.1 kW)

Heating Capacity

1. Calculate the building heating load using the Trane calculation form or any other standard accepted method.
2. Size the equipment using Table 104, p. 101 to match the heating loads at design conditions. For example, if the following specifies the building heating requirements:

   Total Heating Load: 97.0 MBh (28.4 kW)
   Airflow: 2500 cfm (4248 m^3/h)
   Supplementary Electric Heaters
3. Use Table 105, p. 101 to determine that the 34.88 kW heater has a capacity of 119,045 Btuh.
4. From Table 109, p. 105, the 34.88 kW heater at 460V indicates the heater model is BAYHTRN435A.

Air Delivery

1. The external static pressure drop through the air distribution system is 0.84 inches of water gauge, use Table 104, p. 101 to determine that the static pressure drop through the electric heater is 0.16 inches of water (0.84 + 0.16 = 1.00 in.).
2. Enter Table 87, p. 85 for TWE0764DA at 2500 cfm (4248 m3/h) and 1.00 (249 Pa) static pressure. The high static motor at 987 RPM gives the desired airflow.

Model Number Description

Cooling Condenser

Digit 1, 2, 3— Unit Function

TTA = Split System Cooling

Digit 4, 5, 6 — Tonnage

060 = 5 Tons (50Hz)
076 = 6.25 Tons (50Hz)
101 = 8.33 Tons (50Hz)
126 = 10.4 Tons (50Hz)
156 = 13.0 Tons (50Hz)
201 = 16.7 Tons (50Hz)
251 = 20.9 Tons (50Hz)

Digit 7 — Refrigerant

4 = R-410A

Digit 8 — Voltage

D = 380–415 Vac- 3 PH (50Hz)

Digit 9 — Refrigeration Circuit/Stage

A = 1 Compressor/1 Line/1 Stage (Single)
C = 2 Compressors/1 Line/2 Stage (Manifold)
D = 2 Compressors/2 Line/2 Stage (Dual)

Digit 10 — Major Design Sequence

A = Rev A

Digit 11 — Minor Design Sequence

A = Rev A

Digit 12, 13 — Service Digits

**

Digit 14 — Efficiency Generation

A = Generation A

Digit 15 — Controls

S = Symbio™

Digit 16 — None

0 = None

Digit 17 — Coil Protection

0 = Standard Coil
1 = Standard Coil w/ Hail Guard
4 = Complete Coat Condenser Coil (MCHE)
5 = Complete Coat Condenser Coil with Hail Guard (MCHE)

Digit 18, 19, 20 — None

0 = None

Digit 21 — Communications Options

0 = No Option
1 = Advanced Diagnostics and BACnet® BAS
2 = Advanced Diagnostics and LonTalk® Communications Interface (LCI)

Digit 22 to 40 — None

0 = None

Air Handler

Digit 1, 2, 3 — Unit Function

TWE = Air Handler

Digit 4, 5, 6— Tonnage

051 = 4.6 Tons (50Hz)
072 = 6 Tons (50Hz)
076 = 6.25 Tons (50Hz)
101 = 8.33 Tons (50Hz)
126 = 10.4 Tons (50Hz)
156 = 13.0 Tons (50Hz)
201 = 16.7 Tons (50Hz)
251 = 20.9 Tons (50Hz)

Digit 7 — Refrigerant

4 = R-410A

Digit 8 — Voltage

D = 380–415 Vac - 3 PH (50 Hz)

Digit 9 — Refrigeration Circuit/Stage

A = Single Circuit
B = Dual Circuit

Digit 10 — Major Design Sequence

A = Rev A

Digit 11 — Minor Design Sequence

A = Rev A

Digit 12, 13 — Service Digits

**

Digit 14 — Efficiency Generation

A = Generation A (2018 DOE)

Digit 15 — Controls

1 = Constant Volume
C = 2 Stage Airflow (Electromechanical Cond Only)
D = 2 Stage Airflow/Single Zone VAV (Symbio Cond Only)

Digit 16 — Indoor Fan Sizes

0 = Standard Motor
4 = High Static – (Oversized Motor for VFD Units)

Digit 17 to 40 — None

0 = None

General Data

Table 6. General data for 5 - 6.25 ton (TTA0604DA*-TTA0764DD*) condensing units, 50 Hz

	5 Tons	5 Tons	6.25 Tons	6.25 Tons
	Single Compressor TTA0604DA*	Dual Compressor TTA0604DD*	Single Compressor TTA0764DA*	Dual Compressor TTA0764DD*
Cooling Performance - Gross Cooling Capacity, Btu (kW)				
Matched Air Handler	TWE0764DA*	TWE0724DB*	TWE0764DA*	TWE0764DB*
AHRI Rated Airflow CFM (m^3/hr)	2,000 (3,398)	2,000 (3,398)	2,500 (4,248)	2,500 (4,248)
Gross Cooling Capacity - System	66,000 (19.3)	62,000 (18.2)	82,000 (24.0)	78,000 (22.6)
Condensing Unit Only	58,000 (17.0)	53,500 (15.7)	74,000 (21.7)	72,000 (21.1)
AHRI Net Cooling Capacity	65,000 (19.0)	62,000 (18.2)	80,000 (23.4)	77,000 (22.6)
Efficiency				
Matched Air Handler (EER)	11.8	11.8	11.8	12.2
Condensing Unit Only (EER)	13.8	11.9	12.6	13.0
System Power/Condensing Unit Power (kW)	4.6 / 4.2	4.8 / 4.5	6.3 / 5.8	6.0 / 5.6
Compressor				
Type	Scroll	Scroll	Scroll	Scroll
No.	1	2	1	2
System Data				
No. Refrigerant Circuits[a]	1	2	1	2
Suction Line Connection (mm) OD[a]	1 1/8 (28.58)	7/8 (22.23)	1 3/8 (34.90)	1 1/8 (28.58)
Liquid Line Connection (mm) OD[a]	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)
Outdoor Coil				
Type	MCHE	MCHE	MCHE	MCHE
Tube Size OD/Coil Width MCHE (in.)	0.81 (20.6)	0.81 (20.6)	0.81 (20.6)	0.81 (20.6)
Face Area, sq ft (m^2)	18.5 (1.7)	17.4 (1.6)	18.5 (1.7)	17.4 (1.6)
Rows/FPI (Fins per inch)	1/23	1/23	1/23	1/23
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
No. Used	1	1	1	1
Diameter - in. (mm)	26 (660.4)	26 (660.4)	26 (660.4)	26 (660.4)
Drive Type	Direct	Direct	Direct	Direct
No. Speeds	1	1	1	1
CFM (m^3/h)	4,200 (7,136)	4,200 (7,136)	4,200 (7,136)	4,200 (7,136)
No. Motor	1	1	1	1
Motor HP (kW)	0.33 (0.25)	0.33 (0.25)	0.33 (0.25)	0.33 (0.25)
Motor RPM	950	950	950	950
Refrigerant Charge (Field Supplied)				
lbs (kg) of R-410A	10 (4.5)	7.0 / 7.0 (3.2 / 3.2)	11.3 (5.1)	7.3 / 7.3 (3.3 / 3.3)
Shipping Dimensions				
HxWxD - in. (mm)	45” x 45” x 38” (1143 x 1143 x 965)	45” x 45” x 38” (1143 x 1143 x 965)	45” x 45” x 38” (1143 x 1143 x 965)	45” x 45” x 38” (1143 x 1143 x 965)

Notes:

1. 5 - 10.4 and 20.9 ton condensing units are tested in accordance with AHRI Standard 365.
2. 13 - 16.7 ton condensing units are AHRI Certified to AHRI Standard 365.
3. 5 ton single and 6.25 - 16.7 ton units are AHRI Certified to AHRI Standard 340-360 (I-P)-2007. Rating conditions are 95°F outdoor air temperature, 80°F entering dry bulb, 67°F entering wet bulb with 25ft of interconnecting refrigerant piping with minimum external static pressure as determined by rating standard.
4. 5 ton dual and 20.9 ton units are tested in accordance with AHRI Standard 340-360.

[a] Refer to refrigerant piping applications manual for line sizing and line length.

Table 7. General data for 8.33 - 10.4 ton (TTA1014DA*-TTA1264DD*) condensing units, 50 Hz

	8.33 Tons	8.33 Tons	8.33 Tons	10.4 Tons
	Single Compressor TTA1014DA*	Dual Compressor TTA1014DD*	Manifolded Compressor TTA1014DC*	Dual Compressor TTA1264DD*
Cooling Performance - Gross Cooling Capacity, Btu (kW)				
Matched Air Handler	TWE1014DA*	TWE1014DB*	TWE1014DA*	TWE1264DB*
AHRI Rated Airflow CFM (m^3/hr)	3,333 (5,663)	3,333 (5,663)	3,333 (5,663)	4,166 (7,079)
Gross Cooling Capacity - System	105,000 (30.8)	103,000 (30.2)	103,000 (30.2)	132,000 (38.7)
Condensing Unit Only	96,000 (28.1)	92,000 (27.0)	94,000 (27.5)	126,000 (36.9)
AHRI Net Cooling Capacity	104,000 (30.5)	101,000 (29.6)	102,000 (29.9)	130,000 (38.1)
Efficiency				
Matched Air Handler (EER)	12.2	12.2	12.2	11.4
Condensing Unit Only (EER)	13.0	12.9	12.8	11.2
System Power/Condensing Unit Power (kW)	8.2 / 7.4	7.8 / 7.2	7.9 / 7.3	11.5 / 11.3
Compressor				
Type	Scroll	Scroll	Manifolded Scrolls	Scroll
No.	1	2	2	2
System Data				
No. Refrigerant Circuits[a]	1	2	1	2
Suction Line Connection (mm) OD[a]	1 3/8 (34.90)	1 1/8 (28.58)	1 3/8 (34.90)	1 1/8 (28.58)
Liquid Line Connection (mm) OD[a]	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)
Outdoor Coil				
Type	MCHE	MCHE	MCHE	MCHE
Tube Size OD/Coil Width MCHE (in.)	0.81 (20.6)	0.81 (20.6)	0.81 (20.6)	1.0 (25.4)
Face Area, sq ft (m^2)	23.8 (2.2)	22.7 (2.1)	23.8 (2.2)	27.0 (2.5)
Rows/FPI (Fins per inch)	1/23	1/23	1/23	1/23
Outdoor Fan				
Type	Propeller	Propeller	Propeller	Propeller
No. Used	1	1	1	1
Diameter - in. (mm)	28 (711.2)	28 (711.2)	28 (711.2)	28 (711.2)
Drive Type	Direct	Direct	Direct	Direct
No. Speeds	1	1	1	1
CFM (m^3/h)	6,340 (10,772)	6,340 (10,772)	6,340 (10,772)	6,340 (10,772)
No. Motor	1	1	1	1
Motor HP (kW)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)
Motor RPM	925	925	925	925
Refrigerant Charge (Field Supplied)				
lbs (kg) of R-410A	13.6 (6.2)	7.6 / 7.6 (3.4 / 3.4)	13.1 (6.0)	10.1 / 9.8 (4.6 / 4.4)
Shipping Dimensions				
HxWxD - in. (mm)	45" x 55" x 42" (1143 x 1397 x 1067)	45" x 55" x 42" (1143 x 1397 x 1067)	45" x 55" x 42" (1143 x 1397 x 1067)	52.1" x 55" x 42" (1323 x 1397 x 1067)

Notes:

1. 5 - 10.4 and 20.9 ton condensing units are tested in accordance with AHRI Standard 365.
2. 13 - 16.7 ton condensing units are AHRI Certified to AHRI Standard 365.
3. 5 ton single and 6.25 - 16.7 ton units are AHRI Certified to AHRI Standard 340-360 (I-P)-2007. Rating conditions are 95°F outdoor air temperature, 80°F entering dry bulb, 67°F entering wet bulb with 25ft of interconnecting refrigerant piping with minimum external static pressure as determined by rating standard.
4. 5 ton dual and 20.9 ton units are tested in accordance with AHRI Standard 340-360.

[a] Refer to refrigerant piping applications manual for line sizing and line length.

Table 8. General data for 13 - 20.9 ton (TTA1564DD*-TTA2514DC*) condensing units, 50 Hz

	13 Tons	13 Tons	16.7 Tons	16.7 Tons	20.9 Tons
	Dual Compressor TTA1564DD*	Manifolded Compressor TTA1564DC*	Dual Compressor TTA2014DD*	Manifolded Compressor TTA2014DC*	Manifolded Compressor TTA2514DC*
Cooling Performance - Gross Cooling Capacity, Btu (kW)					
Matched Air Handler	TWE1564DB*	TWE1564DB*	TWE2014DB*	TWE2014DB*	TWE2514DB*
AHRI Rated Airflow CFM (m^3/hr)	5,000 (8,495)	5,000 (8,495)	6,667 (11,326)	6,666 (11,326)	8,333 (14,158)
Gross Cooling Capacity - System	164,000 (48.1)	162,000 (47.5)	206,000 (60.4)	218,000 (63.9)	260,000 (76.2)
Condensing Unit Only	152,000 (44.5)	150,000 (44.0)	216,000 (63.3)	224,000 (65.6)	260,000 (76.2)
AHRI Net Cooling Capacity	160,000 (46.9)	158,000 (46.3)	204,000 (59.8)	216,000 (63.3)	254,000 (74.4)
Efficiency					
Matched Air Handler (EER)	12.3	12.0	11.4	11.2	10.7
Condensing Unit Only (EER)	13.2	13.1	13.0	12.7	12.0
System Power/Condensing Unit Power (kW)	12.4 / 11.3	12.2 / 11.3	17.1 / 16.5	18.9 / 17.7	23.9 / 21.7
Compressor					
Type	Scroll	Manifolded Scrolls	Scroll	Manifolded Scrolls	Manifolded Scrolls
No.	2	2	2	2	2
System Data					
No. Refrigerant Circuits[a]	2	1	2	1	1
Suction Line Connection (mm) OD[a]	1 3/8 (34.90)	1 5/8 (41.28)	1 3/8 (34.90)	1 5/8 (41.28)	2 1/8 (53.98)
Liquid Line Connection (mm) OD[a]	1/2 (12.70)	5/8 (15.88)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Outdoor Coil					
Type	MCHE	MCHE	MCHE	MCHE	MCHE
Tube Size OD/Coil Width MCHE (in.)	0.81 (20.6)	0.81 (20.6)	0.81 (20.6)	0.81 (20.6)	1.0 (25.4)
Face Area, sq ft (m^2)	44.3 (4.1)	44.3 (4.1)	44.3 (4.1)	44.3 (4.1)	51.3 (4.8)
Rows/FPI (Fins per inch)	1/23	1/23	1/23	1/23	1/23
Outdoor Fan					
Type	Propeller	Propeller	Propeller	Propeller	Propeller
No. Used	2	2	2	2	2
Diameter - in. (mm)	28 (711.2)	28 (711.2)	28 (711.2)	28 (711.2)	28 (711.2)
Drive Type	Direct	Direct	Direct	Direct	Direct
No. Speeds	1	1	1	1	1
CFM (m^3/h)	12,600 (21,408)	8,595 (14,603)	12,600 (21,408)	12,600 (21,408)	12,600 (21,408)
No. Motor	2	2	2	2	2
Motor HP (kW)	0.75 (0.56)	0.33 (0.25)	0.75 (0.56)	0.75 (0.56)	0.75 (0.56)
Motor RPM	925	925	925	925	925
Refrigerant Charge (Field Supplied)					
lbs (kg) of R-410A	11.2 / 11.3 (5.1 / 5.1)	22 (10)	11.6 / 12.3 (5.3 / 5.6)	23.8 (10.8)	29.8 (13.5)
Shipping Dimensions					
HxWxD - in. (mm)	51.1" x 96" x 48" (1298 x 2438 x 1219)	51.1" x 96" x 48" (1298 x 2438 x 1219)	51.1" x 96" x 48" (1298 x 2438 x 1219)	51.1" x 96" x 48" (1298 x 2438 x 1219)	57.1" x 96" x 48" (1450 x 2438 x 1219)

Notes:

1. 5 - 10.4 and 20.9 ton condensing units are tested in accordance with AHRI Standard 365.
2. 13 - 16.7 ton condensing units are AHRI Certified to AHRI Standard 365.
3. 5 ton single and 6.25 - 16.7 ton units are AHRI Certified to AHRI Standard 340-360 (I-P)-2007. Rating conditions are 95°F outdoor air temperature, 80°F entering dry bulb, 67°F entering wet bulb with 25ft of interconnecting refrigerant piping with minimum external static pressure as determined by rating standard.
4. 5 ton dual and 20.9 ton units are tested in accordance with AHRI Standard 340-360.

[a] Refer to refrigerant piping applications manual for line sizing and line length.

Table 9. General data for 4.6 - 6.25 ton (TWE0514DA* - TWE0764DB*) air handler, 50 Hz

	4.6 Tons	6 Tons	6.25 Tons	6.25 Tons
	Single Circuit TWE0514DA*	Dual Circuit TWE0724DB*	Single Circuit TWE0764DA*	Dual Circuit TWE0764DB*
System Data				
No. Refrigerant Circuits	1	2	1	2
Suction Line Connection, in. (mm) OD	1 1/8 (28.58)	1 1/8 (25.60)	1 3/8 (34.90)	1 1/8 (25.60)
Liquid Line Connection, in. (mm) OD	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)
Indoor Coil				
Type	Lanced/Intertwined	Lanced/Intertwined	Lanced/Intertwined	Lanced/Intertwined
Tube Size, in. (mm)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)
Face Area, sq. ft. (m^2)	5.0 (0.46)	8.1 (0.75)	8.1 (0.75)	8.1 (0.75)
Rows/FPI	4/14	4/14	4/14	4/14
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Connection Size, in. (mm)	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC
Indoor Fan				
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. Used/Diameter x Width, in. (mm)	1/12 x 12 (304.8 x 304.8)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)
Drive Type/No. Speeds	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable
CFM (m^3/h) (Nominal)	2,000 (3,398)	2,000 (3,398)	2,500 (4,248)	2,500 (4,248)
No. Motors	1	1	1	1
Motor HP - Standard/Oversized (kw)	0.75/1.0 (0.56/0.75)	1.5/2.0/3.0 (1.10/1.50/2.2)	1.5/2.0/3.0 (1.10/1.50/2.2)	1.5/2.0/3.0 (1.10/1.50/2.2)
Motor RPM	1450	1450	1450	1450
Motor Frame Size	56	56H	56H	56H
Filters				
Type/Furnished	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes
(No.)/Size Recommended	(1) 16 x 20 x 1; (1) 20 x 20 x 1	(3) 16 X 25 X 1	(3) 16 X 25 X 1	(3) 16 X 25 X 1
MERV 13 (No.)/Size Recommended	(1) 16 x 20 x 2 (1) 20 x 20 x 2	(3) 16 x 25 x 2	(3) 16 x 25 x 2	(3) 16 x 25 x 2
Shipping Dimensions				
HxWxD - in. (mm)	55.1" x 27.5" x 43.5" (1399.5 x 698.5 x 1104.9)	61.2" x 30.5" x 53" (1554.5 x 774.7 x 1346.2)	61.2" x 30.5" x 53" (1554.5 x 774.7 x 1346.2)	61.2" x 30.5" x 53" (1554.5 x 774.7 x 1346.2)

Table 10. General data for 8.33 - 20.9 ton (TWE1014DA* - TWE2514DB*) air handler, 50 Hz

	8.33 Tons	8.33 Tons	10.4 Tons	13 Tons	16.7 Tons	20.9 Tons
	Single Circuit TWE1014DA*	Dual Circuit TWE1014DB*	Dual Circuit TWE1264DB*	Dual Circuit TWE1564DB*	Dual Circuit TWE2014DB*	Dual Circuit TWE2514DB*
System Data						
No. Refrigerant Circuits	1	2	2	2	2	2
Suction Line Connection, in. (mm) OD	1 3/8 (34.90)	1 1/8 (25.60)	1 3/8 (34.90)	1 3/8 (34.90)	1 3/8 (34.90)	2 1/8 (53.98)
Liquid Line Connection, in. (mm) OD	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	1/2 (12.70)	5/8 (15.88)	5/8 (15.88)
Indoor Coil						
Type	Lanced/Intertwined	Lanced/Intertwined	Lanced/Intertwined	Lanced/Intertwined	Lanced/Intertwined	Lanced/Face Split
Tube Size, in. (mm)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)	3/8 (9.50)
Face Area, sq. ft. (m^2)	11.2 (1.04)	11.2 (1.04)	16.3 (1.51)	16.3 (1.51)	21.7 (2.01)	21.7 (2.01)
Rows/FPI	4/14	4/14	4/14	4/14	3/14	4/14
Refrigerant Control	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve	Expansion Valve
Drain Connection Size, in. (mm)	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC	1.0 (25.40) PVC
Indoor Fan						
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
No. Used/Diameter x Width, in. (mm)	1/15 x 15 (381.0 x 381.0)	1/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)	2/15 x 15 (381.0 x 381.0)
Drive Type/No. Speeds	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable	Belt/Adjustable
CFM (m^3/h) (Nominal)	3,350 (5,692)	3,350 (5,692)	4,200 (7,136)	5,000 (8,495)	6,675 (11,341)	8,350 (14,186)
No. Motors	1	1	1	1	1	1
Motor HP - Standard/Oversized (kw)	2.0 (1.50)	2.0/3.0 (1.50/2.20)	2.0/3.0/5.0 (1.50/2.20/3.70)	3.0/5.0 (2.20/3.70)	3.0/5.0/7.5 (2.20/ 3.70/5.60)	5.0 (3.70)
Motor RPM	1500	1500	1500	1,450/1,500	1,500/2,930	2930
Motor Frame Size	56HZ	56HZ	145T	56HZ	184T	184T
Filters						
Type/Furnished	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes	Throwaway/Yes
(No.)/Size Recommended	(4) 16 X 25 X 1	(4) 16 X 25 X 1	(8) 15 X 20 X 2	(8) 15 X 20 X 2	(4) 16 X 25 X 2; (4) 16 X 20 X 2	(4) 16 X 25 X 2; (4) 16 X 20 X 2
MERV 13 (No.)/Size Recommended	(4) 16 x 25 x 2	(4) 16 x 25 x 2	(8) 15 x 20 x 2	(8) 15 x 20 x 2	(4) 16 x 25 x 2 (4) 16 x 20 x 2	(4) 16 x 25 x 2 (4) 16 x 20 x 2
Shipping Dimensions						
HxWxD - in. (mm)	61.2″ x 30.5″ x 69″ (1554.5 x 774.7 x 1752.6)	61.2″ x 30.5″ x 69″ (1554.5 x 774.7 x 1752.6)	76.3″ x 33.8″ x 85″ (1938 x 850.9 x 2159)	76.3″ x 33.8″ x 85″ (1938 x 850.9 x 2159)	79.1″ x 35.8″ x 95″ (2009.1 x 909.3 x 2413)	79.1″ x 35.8″ x 95″ (2009.1 x 909.3 x 2413)

Performance Data

Gross Cooling Capacities

Table 11. Gross cooling capacities (MBH) TTA0604DA condensing unit with TWE0764DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
1800	75	61.8	52.2	67.8	40.1	73.8	27.3	59.3	51.0	65.0	39.0	70.9	26.3	56.6	49.8	62.1	37.8	67.7	25.1
	80	62.5	62.0	67.7	49.9	73.6	37.2	60.2	60.2	65.0	48.7	70.7	36.1	57.9	57.9	62.1	47.5	67.5	35.0
	85	65.5	65.5	67.9	59.5	73.4	47.0	63.3	63.3	65.2	58.3	70.5	45.9	60.9	60.9	62.3	57.1	67.4	44.8
	90	68.6	68.6	68.8	68.8	73.4	56.7	66.3	66.3	66.4	66.4	70.5	55.5	63.8	63.8	64.0	64.0	67.3	54.4
2000	75	63.0	55.3	68.7	42.0	74.7	27.8	60.4	54.1	65.9	40.8	71.7	26.7	57.7	52.9	62.9	39.7	68.4	25.6
	80	64.4	64.4	68.8	52.7	74.4	38.7	62.2	62.2	66.0	51.5	71.4	37.6	59.7	59.7	63.0	50.2	68.2	36.5
	85	67.7	67.7	69.1	63.4	74.3	49.6	65.3	65.3	66.4	62.2	71.3	48.6	62.8	62.8	63.4	61.0	68.1	47.3
	90	70.8	70.8	70.9	70.9	74.3	60.2	68.3	68.3	68.5	68.5	71.3	59.1	65.7	65.7	65.8	65.8	68.1	57.9
2200	75	64.0	58.4	69.5	43.8	75.4	28.2	61.4	57.2	66.7	42.7	72.3	27.2	58.6	55.9	63.6	41.5	69.0	26.0
	80	66.2	66.2	69.6	55.4	75.1	40.2	63.8	63.8	66.8	54.2	72.1	39.2	61.3	61.3	63.8	53.0	68.8	38.1
	85	69.5	69.5	70.2	67.2	75.0	52.3	67.0	67.0	67.4	66.1	71.9	51.2	64.4	64.4	64.5	64.5	68.7	49.8
	90	72.6	72.6	72.7	72.7	75.1	63.8	70.0	70.0	70.1	70.1	72.0	62.6	67.3	67.3	67.4	67.4	68.8	61.5
2400	75	64.9	61.5	70.2	45.6	76.0	28.6	62.3	60.2	67.3	44.4	72.9	27.6	59.5	58.9	64.2	43.3	69.6	26.5
	80	67.7	67.7	70.4	58.2	75.7	41.7	65.3	65.3	67.5	57.0	72.6	40.7	62.7	62.7	64.4	55.7	69.3	39.6
	85	71.0	71.0	71.2	71.1	75.6	54.5	68.5	68.5	68.6	68.6	72.5	53.4	65.7	65.7	65.8	65.8	69.2	52.2
	90	74.0	74.0	74.1	74.1	75.8	67.3	71.4	71.4	71.5	71.5	72.7	66.2	68.6	68.6	68.6	68.6	69.4	65.0

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
1800	75	53.8	48.5	59.0	36.6	64.3	24.0	50.9	47.1	55.7	35.3	60.7	22.7
	80	55.5	55.5	59.0	46.2	64.1	33.8	52.9	52.9	55.7	44.8	60.5	32.5
	85	58.4	58.4	59.3	55.8	64.0	43.6	55.6	55.6	56.1	54.4	60.3	42.2
	90	61.2	61.2	61.3	61.3	64.0	53.1	58.2	58.2	58.3	58.3	60.4	51.7
2000	75	54.8	51.5	59.8	38.4	65.0	24.4	51.9	50.1	56.4	37.1	61.3	23.1
	80	57.2	57.2	59.9	48.9	64.8	35.3	54.4	54.4	56.5	47.5	61.1	34.1
	85	60.1	60.1	60.4	59.7	64.7	46.0	57.2	57.2	57.3	57.3	60.9	44.7
	90	62.9	62.9	63.0	63.0	64.8	56.7	59.8	59.8	59.9	59.9	61.0	55.3
2200	75	55.8	54.6	60.4	40.2	65.6	24.9	52.8	52.8	56.9	38.9	61.8	23.6
	80	58.6	58.6	60.6	51.7	65.3	36.9	55.7	55.7	57.1	50.2	61.5	35.6
	85	61.6	61.6	61.7	61.7	65.2	48.5	58.5	58.5	58.6	58.6	61.4	47.1
	90	64.3	64.3	64.4	64.4	65.4	60.2	61.1	61.1	61.1	61.1	61.6	58.8
2400	75	56.7	56.7	60.9	42.0	66.0	25.3	53.9	53.9	57.4	40.2	62.2	24.0
	80	59.9	59.9	61.2	54.4	65.8	38.4	56.8	56.8	57.7	52.9	61.9	37.1
	85	62.8	62.8	62.9	62.9	65.7	50.9	59.6	59.6	59.7	59.7	61.9	49.5
	90	65.5	65.5	65.6	65.6	66.0	63.7	62.1	62.1	62.1	62.1	62.2	62.2

Notes:

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

Table 12. Gross cooling capacities (kW) TTA0604DA condensing unit with TWE0764DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	18.1	15.3	19.9	11.8	21.6	8.0	17.4	15.0	19.0	11.4	20.8	7.7	16.6	14.6	18.2	11.1	19.8	7.4
	27	18.3	18.2	19.8	14.6	21.6	10.9	17.6	17.6	19.0	14.3	20.7	10.6	17.0	17.0	18.2	13.9	19.8	10.2
	30	19.2	19.2	19.9	17.4	21.5	13.8	18.5	18.5	19.1	17.1	20.7	13.5	17.9	17.9	18.3	16.7	19.7	13.1
	33	20.1	20.1	20.1	20.1	21.5	16.6	19.4	19.4	19.5	19.5	20.7	16.3	18.7	18.7	18.7	18.7	19.7	15.9
3398	24	18.4	16.2	20.1	12.3	21.9	8.1	17.7	15.9	19.3	12.0	21.0	7.8	16.9	15.5	18.4	11.6	20.1	7.5
	27	18.9	18.9	20.2	15.4	21.8	11.3	18.2	18.2	19.3	15.1	20.9	11.0	17.5	17.5	18.5	14.7	20.0	10.7
	30	19.8	19.8	20.3	18.6	21.8	14.5	19.1	19.1	19.4	18.2	20.9	14.2	18.4	18.4	18.6	17.9	20.0	13.9
	33	20.7	20.7	20.8	20.8	21.8	17.6	20.0	20.0	20.1	20.1	20.9	17.3	19.3	19.3	19.3	19.3	20.0	17.0
3738	24	18.7	17.1	20.4	12.8	22.1	8.3	18.0	16.8	19.5	12.5	21.2	8.0	17.2	16.4	18.6	12.1	20.2	7.6
	27	19.4	19.4	20.4	16.2	22.0	11.8	18.7	18.7	19.6	15.9	21.1	11.5	18.0	18.0	18.7	15.5	20.2	11.1
	30	20.4	20.4	20.6	19.7	22.0	15.3	19.6	19.6	19.7	19.4	21.1	15.0	18.9	18.9	18.9	18.9	20.1	14.6
	33	21.3	21.3	21.3	21.3	22.0	18.7	20.5	20.5	20.5	20.5	21.1	18.4	19.7	19.7	19.7	19.7	20.2	18.0
4078	24	19.0	18.0	20.6	13.4	22.3	8.4	18.2	17.6	19.7	13.0	21.4	8.1	17.4	17.3	18.8	12.7	20.4	7.8
	27	19.8	19.8	20.6	17.0	22.2	12.2	19.1	19.1	19.8	16.7	21.3	11.9	18.4	18.4	18.9	16.3	20.3	11.6
	30	20.8	20.8	20.9	20.8	22.1	16.0	20.1	20.1	20.1	20.1	21.2	15.6	19.3	19.3	19.3	19.3	20.3	15.3
	33	21.7	21.7	21.7	21.7	22.2	19.7	20.9	20.9	20.9	20.9	21.3	19.4	20.1	20.1	20.1	20.1	20.3	19.0

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	15.8	14.2	17.3	10.7	18.9	7.0	14.9	13.8	16.3	10.3	17.8	6.6
	27	16.3	16.3	17.3	13.5	18.8	9.9	15.5	15.5	16.3	13.1	17.7	9.5
	30	17.1	17.1	17.4	16.3	18.8	12.8	16.3	16.3	16.4	15.9	17.7	12.4
	33	17.9	17.9	18.0	18.0	18.8	15.6	17.1	17.1	17.1	17.1	17.7	15.2
3398	24	16.1	15.1	17.5	11.3	19.0	7.2	15.2	14.7	16.5	10.9	18.0	6.8
	27	16.8	16.8	17.5	14.3	19.0	10.4	15.9	15.9	16.5	13.9	17.9	10.0
	30	17.6	17.6	17.7	17.5	19.0	13.5	16.8	16.8	16.8	16.8	17.9	13.1
	33	18.4	18.4	18.5	18.5	19.0	16.6	17.5	17.5	17.5	17.5	17.9	16.2
3738	24	16.3	16.0	17.7	11.8	19.2	7.3	15.5	15.5	16.7	11.4	18.1	6.9
	27	17.2	17.2	17.7	15.1	19.1	10.8	16.3	16.3	16.7	14.7	18.0	10.4
	30	18.0	18.0	18.1	18.1	19.1	14.2	17.1	17.1	17.2	17.2	18.0	13.8
	33	18.8	18.8	18.9	18.9	19.2	17.6	17.9	17.9	17.9	17.9	18.1	17.2
4078	24	16.6	16.6	17.8	12.3	19.3	7.4	15.8	15.8	16.8	11.8	18.2	7.0
	27	17.5	17.5	17.9	15.9	19.3	11.3	16.7	16.7	16.9	15.5	18.1	10.9
	30	18.4	18.4	18.4	18.4	19.3	14.9	17.5	17.5	17.5	17.5	18.1	14.5
	33	19.2	19.2	19.2	19.2	19.3	18.7	18.2	18.2	18.2	18.2	18.2	18.2

Notes:

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

Table 13. Gross cooling capacities (MBH) TTA0604DD condensing unit with TWE0724DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC
1800	75	57.4	49.8	64.2	38.4	71.7	26.5	54.6	48.5	61.0	37.1	68.2	25.3	51.7	47.2	57.8	35.8	64.6	24.0
	80	58.5	58.5	64.1	48.0	71.6	36.2	56.1	56.1	60.9	46.6	68.1	34.9	53.7	53.7	57.7	45.4	64.3	33.6
	85	61.9	61.9	64.3	57.4	71.4	45.8	59.5	59.5	61.2	56.1	67.9	44.5	56.9	56.9	58.0	54.8	64.2	43.2
	90	65.4	65.4	65.6	65.6	71.4	55.3	62.9	62.9	63.0	63.0	67.9	54.0	60.2	60.2	60.4	60.4	64.2	52.7
2000	75	58.6	52.9	65.3	40.2	72.8	27.1	55.7	51.5	62.0	38.9	69.2	25.8	52.8	50.2	58.7	37.6	65.6	24.6
	80	60.5	60.5	65.3	50.9	72.4	37.7	58.1	58.1	62.0	49.4	69.1	36.5	55.5	55.5	58.7	48.1	65.5	35.3
	85	64.2	64.2	65.6	61.3	72.3	48.3	61.6	61.6	62.5	60.0	69.0	47.2	58.9	58.9	59.3	58.5	65.3	45.9
	90	67.9	67.9	68.1	68.1	72.6	58.9	65.3	65.3	65.4	65.4	69.1	57.6	62.5	62.5	62.5	62.5	65.5	56.4
2200	75	59.6	55.9	66.2	42.0	73.5	27.5	56.8	54.6	62.8	40.7	70.0	26.3	53.8	52.6	59.4	39.4	66.3	25.0
	80	62.4	62.4	66.3	53.6	73.3	39.2	59.8	59.8	62.9	52.2	70.0	38.1	57.1	57.1	59.6	50.8	66.3	36.8
	85	66.2	66.2	66.9	65.1	73.2	50.9	63.5	63.5	63.8	63.0	69.8	49.7	60.7	60.7	60.8	60.8	66.2	48.4
	90	70.1	70.1	70.3	70.3	73.4	62.4	67.3	67.3	67.4	67.4	70.1	61.2	64.2	64.2	64.3	64.3	66.5	59.9
2400	75	60.6	58.8	67.0	43.8	74.2	27.9	57.6	57.6	63.5	42.4	70.5	26.7	54.9	54.9	60.0	41.0	67.0	25.5
	80	64.1	64.1	67.1	56.2	74.1	40.7	61.3	61.3	63.8	54.9	70.4	39.5	58.5	58.5	60.3	53.5	66.9	38.3
	85	68.0	68.0	68.3	68.0	74.0	53.3	65.2	65.2	65.3	65.3	70.6	52.1	62.2	62.2	62.3	62.3	66.9	50.8
	90	72.1	72.1	72.2	72.2	74.3	65.9	69.1	69.1	69.2	69.2	70.7	64.6	66.1	66.1	66.0	66.0	67.4	63.4

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC
1800	75	49.0	45.9	54.6	34.6	60.9	22.8	46.4	44.7	51.7	33.5	57.6	21.6
	80	51.3	51.3	54.6	44.0	60.8	32.4	49.0	49.0	51.7	42.9	57.5	31.3
	85	54.5	54.5	55.0	53.5	60.7	42.0	52.1	52.1	52.3	52.0	57.3	40.8
	90	57.7	57.7	57.8	57.8	60.7	51.4	55.2	55.2	55.3	55.3	57.4	50.2
2000	75	50.0	48.9	55.5	36.4	61.7	23.2	47.4	47.4	52.4	35.2	58.3	22.1
	80	53.0	53.0	55.5	46.8	61.6	33.9	50.6	50.6	52.5	45.6	58.2	32.8
	85	56.3	56.3	56.4	56.4	61.5	44.5	53.8	53.8	53.9	53.9	58.1	43.3
	90	59.6	59.6	59.7	59.7	61.7	55.0	56.9	56.9	57.0	57.0	58.3	53.8
2200	75	51.1	51.1	56.1	38.1	62.4	23.7	48.7	48.7	53.0	36.9	58.9	22.6
	80	54.5	54.5	56.3	49.7	62.3	35.5	52.0	52.0	53.3	48.3	58.8	34.3
	85	57.9	57.9	58.0	58.0	62.2	47.0	55.3	55.3	55.3	55.3	58.7	45.7
	90	61.3	61.3	61.4	61.4	62.6	58.5	58.5	58.5	58.5	58.5	59.1	56.8
2400	75	52.3	52.3	56.7	39.7	62.9	24.2	49.8	49.8	53.5	38.5	59.3	23.0
	80	55.8	55.8	57.0	52.2	62.8	37.0	53.2	53.2	53.9	50.9	59.2	35.8
	85	59.3	59.3	59.4	59.4	62.8	49.4	56.5	56.5	56.6	56.6	59.3	48.1
	90	62.8	62.8	62.9	62.9	63.4	61.4	59.8	59.8	59.8	59.8	59.9	59.9

Notes:

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

Table 14. Gross cooling capacities (kW) TTA0604DD condensing unit with TWE0724DB air handler (SI)

Air-flow m^3/hr	Ent DB (°C)	Ambient Temperature (°C)						Ambient Temperature (°C)						Ambient Temperature (°C)					
		30						35						40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	17.1	14.8	19.1	11.4	21.4	7.9	16.3	14.4	18.2	11.0	20.3	7.5	15.4	14.0	17.2	10.7	19.2	7.2
	27	17.4	17.4	19.1	14.3	21.3	10.8	16.7	16.7	18.1	13.9	20.3	10.4	16.0	16.0	17.2	13.5	19.1	10.0
	30	18.4	18.4	19.1	17.1	21.3	13.6	17.7	17.7	18.2	16.7	20.2	13.3	17.0	17.0	17.3	16.3	19.1	12.9
	33	19.5	19.5	19.5	19.5	21.2	16.5	18.7	18.7	18.8	18.8	20.2	16.1	17.9	17.9	18.0	18.0	19.1	15.7
3398	24	17.5	15.7	19.4	12.0	21.7	8.1	16.6	15.3	18.5	11.6	20.6	7.7	15.7	14.9	17.5	11.2	19.5	7.3
	27	18.0	18.0	19.4	15.1	21.6	11.2	17.3	17.3	18.5	14.7	20.6	10.9	16.5	16.5	17.5	14.3	19.5	10.5
	30	19.1	19.1	19.5	18.2	21.5	14.4	18.3	18.3	18.6	17.9	20.5	14.0	17.5	17.5	17.7	17.4	19.4	13.7
	33	20.2	20.2	20.3	20.3	21.6	17.5	19.4	19.4	19.5	19.5	20.6	17.2	18.6	18.6	18.6	18.6	19.5	16.8
3738	24	17.8	16.6	19.7	12.5	21.9	8.2	16.9	16.2	18.7	12.1	20.9	7.8	16.0	15.7	17.7	11.7	19.7	7.5
	27	18.6	18.6	19.7	16.0	21.8	11.7	17.8	17.8	18.7	15.5	20.8	11.3	17.0	17.0	17.7	15.1	19.7	11.0
	30	19.7	19.7	19.9	19.4	21.8	15.1	18.9	18.9	19.0	18.8	20.8	14.8	18.1	18.1	18.1	18.1	19.7	14.4
	33	20.9	20.9	20.9	20.9	21.8	18.6	20.0	20.0	20.1	20.1	20.9	18.2	19.1	19.1	19.2	19.2	19.8	17.8
4078	24	18.0	17.5	20.0	13.0	22.1	8.3	17.2	17.2	18.9	12.6	21.0	7.9	16.3	16.3	17.9	12.2	19.9	7.6
	27	19.1	19.1	20.0	16.7	22.1	12.1	18.3	18.3	19.0	16.3	21.0	11.8	17.4	17.4	18.0	15.9	19.9	11.4
	30	20.3	20.3	20.3	20.2	22.0	15.9	19.4	19.4	19.4	19.4	21.0	15.5	18.5	18.5	18.5	18.5	19.9	15.1
	33	21.5	21.5	21.5	21.5	22.1	19.6	20.6	20.6	20.6	20.6	21.1	19.2	19.7	19.7	19.6	19.6	20.1	18.9

Air-flow m^3/hr	Ent DB (°C)	Ambient Temperature (°C)						Ambient Temperature (°C)					
		45						52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3058	24	14.6	13.7	16.3	10.3	18.1	6.8	13.8	13.3	15.4	10.0	17.1	6.4
	27	15.3	15.3	16.2	13.1	18.1	9.6	14.6	14.6	15.4	12.8	17.1	9.3
	30	16.2	16.2	16.4	15.9	18.1	12.5	15.5	15.5	15.6	15.3	17.1	12.2
	33	17.2	17.2	17.2	17.2	18.1	15.3	16.4	16.4	16.5	16.5	17.1	15.0
3398	24	14.9	14.6	16.5	10.8	18.4	6.9	14.1	14.1	15.6	10.5	17.4	6.6
	27	15.8	15.8	16.5	13.9	18.3	10.1	15.1	15.1	15.6	13.6	17.3	9.8
	30	16.8	16.8	16.8	16.8	18.3	13.3	16.0	16.0	16.0	16.0	17.3	12.9
	33	17.8	17.8	17.8	17.8	18.4	16.4	17.0	17.0	17.0	17.0	17.4	16.0
3738	24	15.2	15.1	16.7	11.4	18.6	7.1	14.5	14.5	15.8	11.0	17.5	6.7
	27	16.2	16.2	16.8	14.7	18.5	10.6	15.5	15.5	15.9	14.4	17.5	10.2
	30	17.2	17.2	17.3	17.3	18.5	14.0	16.5	16.5	16.5	16.5	17.5	13.6
	33	18.3	18.3	18.3	18.3	18.6	17.4	17.4	17.4	17.4	17.4	17.6	16.9
4078	24	15.6	15.6	16.9	11.8	18.7	7.2	14.8	14.8	15.9	11.5	17.7	6.9
	27	16.6	16.6	17.0	15.5	18.7	11.0	15.8	15.8	16.1	15.2	17.6	10.6
	30	17.7	17.7	17.7	17.7	18.7	14.7	16.8	16.8	16.8	16.8	17.6	14.3
	33	18.7	18.7	18.7	18.7	18.9	18.3	17.8	17.8	17.8	17.8	17.8	17.8

Notes:

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

Table 15. Gross cooling capacities (MBH) TTA0764DA condensing unit with TWE0764DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2250	75	76.4	64.1	84.5	49.6	92.6	34.2	73.2	62.6	80.9	48.1	88.7	32.8	69.8	61.0	77.2	46.6	84.5	31.4
	80	76.7	76.7	84.4	61.3	92.4	46.1	74.0	74.0	80.8	59.9	88.5	44.7	71.1	71.1	77.0	58.3	84.3	43.2
	85	80.7	80.7	84.4	72.9	92.2	57.9	77.9	77.9	80.8	71.4	88.2	56.5	74.9	74.9	77.1	69.9	84.1	55.1
	90	84.7	84.7	85.2	84.8	91.9	69.7	81.8	81.8	81.9	81.9	88.0	68.3	78.7	78.7	78.8	78.8	83.9	66.7
2500	75	77.9	67.6	85.8	51.7	93.8	34.8	74.6	66.1	82.1	50.2	89.8	33.4	71.1	64.5	78.2	48.6	85.5	31.9
	80	79.2	79.2	85.6	64.6	93.5	47.9	76.3	76.3	82.0	63.2	89.5	46.5	73.3	73.3	78.1	61.6	85.3	45.0
	85	83.4	83.4	85.9	77.4	93.3	60.9	80.4	80.4	82.2	75.8	89.3	59.5	77.2	77.2	78.5	74.3	85.1	58.0
	90	87.5	87.5	87.6	87.6	93.2	73.8	84.4	84.4	84.5	84.5	89.2	72.3	81.0	81.0	81.2	81.2	85.0	70.8
2750	75	79.1	71.1	86.9	53.7	94.7	35.3	75.7	69.5	83.1	52.2	90.6	33.9	72.2	67.9	79.2	50.6	86.3	32.4
	80	81.4	81.4	86.7	67.7	94.5	49.6	78.4	78.4	83.0	66.1	90.4	48.2	75.2	75.2	79.0	64.5	86.1	46.7
	85	85.6	85.6	87.2	81.7	94.3	63.8	82.5	82.5	83.5	80.2	90.2	62.4	79.2	79.2	79.7	78.6	85.8	60.9
	90	89.7	89.7	89.9	89.9	94.2	77.7	86.5	86.5	86.6	86.6	90.1	76.3	83.0	83.0	83.1	83.1	85.8	74.7
3000	75	80.2	74.4	87.8	55.6	95.5	35.8	76.8	72.9	84.0	54.1	91.4	34.4	72.7	72.7	79.9	52.6	87.0	32.9
	80	83.2	83.2	87.7	70.7	95.3	51.2	80.1	80.1	83.9	69.2	91.1	49.8	76.8	76.8	79.9	67.5	86.7	48.3
	85	87.5	87.5	88.3	85.9	95.0	66.6	84.3	84.3	84.7	84.4	90.9	65.2	80.9	80.9	81.0	81.0	86.5	63.7
	90	91.7	91.7	91.8	91.8	95.0	81.6	88.3	88.3	88.4	88.4	90.9	80.1	84.7	84.7	84.8	84.8	86.6	78.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2250	75	66.3	59.3	73.2	45.0	80.1	29.8	62.9	57.8	68.8	43.3	75.2	28.1
	80	68.1	68.1	73.0	56.8	79.9	41.7	65.0	65.0	68.7	55.1	75.0	40.0
	85	71.7	71.7	73.2	68.2	79.6	53.5	68.2	68.2	69.0	66.5	74.8	51.8
	90	75.3	75.3	75.4	75.4	79.5	65.1	71.6	71.6	71.7	71.7	74.7	63.3
2500	75	67.5	62.8	74.1	47.0	81.0	30.3	64.0	61.2	69.7	45.3	76.0	28.6
	80	70.1	70.1	74.0	59.8	80.7	43.4	66.7	66.7	69.6	58.0	75.7	41.7
	85	73.8	73.8	74.5	72.6	80.5	56.5	70.1	70.1	70.3	70.3	75.5	54.8
	90	77.5	77.5	77.5	77.5	80.4	69.1	73.5	73.5	73.5	73.5	75.5	67.3
2750	75	68.5	66.2	74.9	49.0	81.7	30.8	64.8	64.8	70.4	47.3	76.6	29.1
	80	71.8	71.8	74.9	62.8	81.4	45.1	68.2	68.2	70.4	61.0	76.4	43.4
	85	75.6	75.6	75.8	75.8	81.2	59.3	71.7	71.7	71.8	71.8	76.1	57.6
	90	79.2	79.2	79.3	79.3	81.3	73.1	75.0	75.0	75.1	75.1	76.3	71.3
3000	75	69.4	69.4	75.6	51.0	82.3	31.3	66.0	66.0	71.0	49.2	77.1	29.6
	80	73.3	73.3	75.6	65.8	82.0	46.8	69.5	69.5	71.1	64.0	76.9	45.1
	85	77.1	77.1	77.2	77.2	81.8	62.2	73.0	73.0	73.1	73.1	76.6	60.5
	90	80.7	80.7	80.8	80.8	82.0	76.9	76.3	76.3	76.4	76.4	76.9	75.1

Notes:

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

Table 16. Gross cooling capacities (kW) TTA0764DA condensing unit with TWE0764DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	22.4	18.8	24.8	14.5	27.1	10.0	21.5	18.3	23.7	14.1	26.0	9.6	20.5	17.9	22.6	13.7	24.8	9.2
	27	22.5	22.5	24.7	18.0	27.1	13.5	21.7	21.7	23.7	17.5	25.9	13.1	20.8	20.8	22.6	17.1	24.7	12.7
	30	23.7	23.7	24.7	21.4	27.0	17.0	22.8	22.8	23.7	20.9	25.9	16.6	22.0	22.0	22.6	20.5	24.6	16.1
	33	24.8	24.8	25.0	24.8	26.9	20.4	24.0	24.0	24.0	24.0	25.8	20.0	23.1	23.1	23.1	23.1	24.6	19.6
4248	24	22.8	19.8	25.2	15.1	27.5	10.2	21.9	19.4	24.1	14.7	26.3	9.8	20.8	18.9	22.9	14.3	25.1	9.3
	27	23.2	23.2	25.1	18.9	27.4	14.0	22.4	22.4	24.0	18.5	26.2	13.6	21.5	21.5	22.9	18.1	25.0	13.2
	30	24.4	24.4	25.2	22.7	27.4	17.9	23.6	23.6	24.1	22.2	26.2	17.4	22.6	22.6	23.0	21.8	24.9	17.0
	33	25.6	25.6	25.7	25.7	27.3	21.6	24.7	24.7	24.8	24.8	26.1	21.2	23.8	23.8	23.8	23.8	24.9	20.7
4672	24	23.2	20.8	25.5	15.7	27.8	10.3	22.2	20.4	24.4	15.3	26.6	9.9	21.2	19.9	23.2	14.8	25.3	9.5
	27	23.8	23.8	25.4	19.8	27.7	14.5	23.0	23.0	24.3	19.4	26.5	14.1	22.0	22.0	23.2	18.9	25.2	13.7
	30	25.1	25.1	25.5	23.9	27.6	18.7	24.2	24.2	24.5	23.5	26.4	18.3	23.2	23.2	23.4	23.0	25.2	17.9
	33	26.3	26.3	26.3	26.3	27.6	22.8	25.3	25.3	25.4	25.4	26.4	22.3	24.3	24.3	24.4	24.4	25.2	21.9
5097	24	23.5	21.8	25.7	16.3	28.0	10.5	22.5	21.4	24.6	15.9	26.8	10.1	21.3	21.3	23.4	15.4	25.5	9.6
	27	24.4	24.4	25.7	20.7	27.9	15.0	23.5	23.5	24.6	20.3	26.7	14.6	22.5	22.5	23.4	19.8	25.4	14.2
	30	25.7	25.7	25.9	25.2	27.8	19.5	24.7	24.7	24.8	24.7	26.6	19.1	23.7	23.7	23.7	23.7	25.3	18.7
	33	26.9	26.9	26.9	26.9	27.9	23.9	25.9	25.9	25.9	25.9	26.7	23.5	24.8	24.8	24.8	24.8	25.4	23.0

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	19.4	17.4	21.4	13.2	23.5	8.7	18.4	16.9	20.2	12.7	22.0	8.2
	27	20.0	20.0	21.4	16.6	23.4	12.2	19.0	19.0	20.1	16.1	22.0	11.7
	30	21.0	21.0	21.5	20.0	23.3	15.7	20.0	20.0	20.2	19.5	21.9	15.2
	33	22.1	22.1	22.1	22.1	23.3	19.1	21.0	21.0	21.0	21.0	21.9	18.6
4248	24	19.8	18.4	21.7	13.8	23.7	8.9	18.8	17.9	20.4	13.3	22.3	8.4
	27	20.5	20.5	21.7	17.5	23.7	12.7	19.6	19.6	20.4	17.0	22.2	12.2
	30	21.6	21.6	21.8	21.3	23.6	16.5	20.5	20.5	20.6	20.6	22.1	16.0
	33	22.7	22.7	22.7	22.7	23.6	20.3	21.5	21.5	21.6	21.6	22.1	19.7
4672	24	20.1	19.4	22.0	14.4	23.9	9.0	19.0	19.0	20.6	13.9	22.4	8.5
	27	21.1	21.1	21.9	18.4	23.9	13.2	20.0	20.0	20.6	17.9	22.4	12.7
	30	22.2	22.2	22.2	22.2	23.8	17.4	21.0	21.0	21.0	21.0	22.3	16.9
	33	23.2	23.2	23.2	23.2	23.8	21.4	22.0	22.0	22.0	22.0	22.3	20.9
5097	24	20.3	20.3	22.2	14.9	24.1	9.2	19.3	19.3	20.8	14.4	22.6	8.7
	27	21.5	21.5	22.2	19.3	24.0	13.7	20.4	20.4	20.8	18.8	22.5	13.2
	30	22.6	22.6	22.6	22.6	24.0	18.2	21.4	21.4	21.4	21.4	22.5	17.7
	33	23.7	23.7	23.7	23.7	24.0	22.5	22.4	22.4	22.4	22.4	22.6	22.0

Notes:

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

Table 17. Gross cooling capacities (MBH) TTA0764DA condensing unit with TWE1014DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2550	75	79.2	70.1	86.2	53.1	93.5	34.9	75.9	68.5	82.6	51.7	89.7	33.6	72.4	66.9	78.8	50.2	85.7	32.2
	80	81.2	81.2	86.2	66.6	93.2	48.9	78.3	78.3	82.7	65.1	89.3	47.5	75.1	75.1	78.9	63.5	85.3	46.1
	85	85.1	85.1	86.7	80.2	92.9	62.9	82.2	82.2	83.2	78.8	89.1	61.2	78.9	78.9	79.5	77.2	85.1	59.7
	90	88.9	88.9	89.0	89.0	92.9	76.1	85.8	85.8	85.9	85.9	89.1	74.7	82.5	82.5	82.6	82.6	85.2	73.2
2850	75	80.6	74.6	87.3	55.8	94.6	35.6	77.3	73.0	83.7	54.4	90.7	34.2	73.8	71.4	79.8	52.9	86.5	32.8
	80	83.6	83.6	87.4	70.7	94.1	51.2	80.6	80.6	83.8	69.1	90.2	49.8	77.4	77.4	80.0	67.5	86.1	48.4
	85	87.6	87.6	88.2	86.0	93.9	66.3	84.5	84.5	84.7	84.5	90.0	64.8	81.1	81.1	81.2	81.2	86.0	63.3
	90	91.3	91.3	91.4	91.4	94.2	81.5	88.1	88.1	88.2	88.2	90.1	80.0	84.6	84.6	84.7	84.7	86.1	78.5
3150	75	81.9	79.1	88.2	58.1	95.4	36.2	78.6	77.5	84.5	56.6	91.5	34.9	75.1	75.1	80.6	54.9	87.3	33.5
	80	85.7	85.6	88.4	74.7	94.9	53.4	82.5	82.5	84.8	73.2	91.0	52.1	79.1	79.1	80.9	71.5	86.8	50.8
	85	89.6	89.6	89.7	89.7	94.8	69.9	86.4	86.4	86.5	86.5	90.8	68.4	82.9	82.9	83.0	83.0	86.6	66.9
	90	93.4	93.4	93.6	93.6	95.4	86.8	89.9	89.9	90.0	90.0	91.1	85.2	86.3	86.3	86.3	86.3	87.0	83.7
3450	75	83.1	83.1	89.0	60.5	96.2	36.9	80.0	80.0	85.2	58.9	92.2	35.6	76.6	76.6	81.2	57.3	87.9	34.2
	80	87.4	87.4	89.3	78.7	95.5	55.7	84.1	84.1	85.6	77.1	91.6	54.4	80.6	80.6	81.7	75.5	87.4	53.0
	85	91.3	91.3	91.4	91.4	95.7	73.6	88.0	88.0	88.0	88.0	91.4	72.0	84.4	84.4	84.4	84.4	87.2	70.5
	90	95.5	95.5	95.6	95.6	96.6	92.1	91.5	91.5	91.6	91.6	92.1	90.5	87.6	87.6	87.7	87.7	87.8	87.8

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
2550	75	68.7	65.1	74.6	48.6	81.2	30.6	64.9	63.3	70.2	46.8	76.2	29.0
	80	71.8	71.8	74.8	61.8	80.9	44.6	68.1	68.1	70.4	59.9	76.0	43.0
	85	75.4	75.4	75.6	75.5	80.7	58.1	71.5	71.5	71.6	71.6	75.8	56.2
	90	78.8	78.8	78.9	78.9	80.8	71.6	74.7	74.7	74.8	74.8	76.0	69.8
2850	75	70.0	69.6	75.5	50.8	82.0	31.3	66.2	66.2	71.0	48.9	77.0	29.7
	80	73.8	73.8	75.8	65.8	81.6	46.9	69.9	69.9	71.3	63.9	76.7	45.3
	85	77.4	77.4	77.5	77.5	81.5	61.7	73.3	73.3	73.4	73.4	76.5	59.8
	90	80.7	80.7	80.8	80.8	81.7	76.8	76.4	76.4	76.5	76.5	76.9	75.0
3150	75	71.5	71.5	76.3	53.2	82.7	32.0	67.7	67.7	71.6	51.2	77.6	30.3
	80	75.4	75.4	76.7	69.8	82.3	49.2	71.4	71.4	72.1	67.9	77.2	47.6
	85	79.0	79.0	79.1	79.1	82.1	65.2	74.8	74.8	74.8	74.8	77.1	63.4
	90	82.2	82.2	82.3	82.3	82.5	82.0	77.7	77.7	77.8	77.8	77.9	77.9
3450	75	72.9	72.9	76.9	55.5	83.2	32.7	68.9	68.9	72.2	53.5	78.0	31.0
	80	76.8	76.8	77.5	73.7	82.8	50.8	72.6	72.6	72.9	71.8	77.7	48.9
	85	80.4	80.4	80.5	80.5	82.6	68.8	76.0	76.0	76.0	76.0	77.6	66.9
	90	83.5	83.5	83.5	83.5	83.6	83.6	78.8	78.8	78.9	78.9	78.9	78.9

Notes:

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

Table 18. Gross cooling capacities (kW) TTA0764DA condensing unit with TWE1014DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
4332	24	124.6	107.0	137.0	81.4	148.6	54.5	118.5	104.2	130.4	78.8	141.5	52.0	111.8	101.2	123.2	75.9	133.8	49.4
	27	125.1	124.8	136.8	101.8	148.3	75.1	119.3	119.3	130.3	99.2	141.3	72.6	113.3	113.3	123.1	96.3	133.6	70.0
	30	129.9	129.9	136.7	122.1	148.1	95.6	124.8	124.8	130.2	119.5	141.1	93.1	119.1	119.1	123.1	116.7	133.4	90.5
	33	136.0	136.0	137.3	135.3	147.9	116.0	130.7	130.7	131.4	131.1	140.9	113.5	124.8	124.8	124.9	124.9	133.3	110.9
4842	24	126.9	114.1	139.1	85.5	150.5	55.5	120.6	111.3	132.4	82.8	143.1	53.0	113.8	108.4	125.0	80.0	135.2	50.3
	27	128.1	128.1	138.9	108.3	150.3	78.6	122.5	122.5	132.2	105.7	142.9	76.0	116.7	116.7	124.9	102.8	135.0	73.4
	30	134.1	134.1	138.8	131.1	150.0	101.5	128.7	128.7	132.2	128.5	142.7	99.0	122.7	122.7	125.0	123.2	134.9	96.3
	33	140.2	140.2	140.5	140.5	149.8	124.4	134.6	134.6	134.6	134.6	142.5	121.9	128.3	128.3	128.5	128.5	134.7	119.2
5352	24	128.8	121.2	140.8	89.5	152.1	56.5	122.4	118.4	133.9	86.9	144.4	53.9	115.5	113.8	126.4	84.0	136.4	51.2
	27	131.1	131.1	140.6	114.8	151.9	82.1	125.7	125.7	133.8	112.1	144.2	79.5	119.7	119.7	126.3	109.3	136.2	76.8
	30	137.6	137.6	140.7	139.1	151.7	107.5	131.9	131.9	134.0	133.3	144.0	104.9	125.7	125.7	126.8	126.8	136.0	102.2
	33	143.6	143.6	143.7	143.7	151.4	132.8	137.7	137.7	137.9	137.9	143.8	130.2	131.2	131.2	131.4	131.4	135.8	127.5
5862	24	130.4	128.3	142.2	93.5	153.5	57.5	124.0	122.9	135.2	90.8	145.6	54.9	117.1	117.1	127.6	88.0	137.3	52.2
	27	134.1	134.1	142.0	121.2	153.2	85.5	128.4	128.4	135.1	118.6	145.3	82.9	122.2	122.2	127.4	115.7	137.1	80.2
	30	140.5	140.5	142.3	142.3	153.0	113.4	134.7	134.7	135.7	135.7	145.1	110.8	128.2	128.2	128.6	128.6	136.9	108.1
	33	146.4	146.4	146.6	146.6	152.7	141.2	140.4	140.4	140.5	140.5	145.0	138.6	133.6	133.6	133.7	133.7	136.7	134.2

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
4332	24	104.7	98.1	115.5	72.9	125.4	46.5	97.2	94.9	106.9	69.6	116.1	43.4
	27	107.0	107.0	115.4	93.3	125.2	67.1	100.6	100.6	106.8	90.0	116.0	63.9
	30	112.8	112.8	115.5	113.3	125.1	87.6	105.9	105.9	107.1	106.1	115.8	84.5
	33	118.3	118.3	118.4	118.4	124.9	108.0	111.0	111.0	111.1	111.1	115.6	104.9
4842	24	106.5	104.3	117.0	76.9	126.6	47.4	98.9	98.3	108.2	73.6	117.2	44.3
	27	110.4	110.4	116.9	99.8	126.5	70.5	103.4	103.4	108.1	96.5	117.1	67.4
	30	116.1	116.1	117.3	117.2	126.3	93.5	108.8	108.8	109.2	109.2	116.9	90.3
	33	121.5	121.5	121.6	121.6	126.1	116.3	113.8	113.8	113.9	113.9	116.8	113.0
5352	24	108.2	108.2	118.3	80.9	127.6	48.4	100.6	100.6	109.3	77.6	118.0	45.2
	27	113.1	113.1	118.2	106.2	127.5	73.9	105.7	105.7	109.2	102.9	117.9	70.8
	30	118.8	118.8	119.3	119.3	127.3	99.3	111.1	111.1	111.1	111.1	117.7	96.2
	33	124.1	124.1	124.2	124.2	127.2	123.9	116.0	116.0	116.1	116.1	117.7	115.9
5862	24	109.7	109.7	119.3	84.9	128.5	49.3	102.2	102.2	110.2	81.6	118.7	46.2
	27	115.4	115.4	119.2	112.6	128.3	77.3	107.8	107.8	110.2	107.2	118.7	74.2
	30	121.1	121.1	121.1	121.1	128.1	105.2	113.1	113.1	113.2	113.2	118.4	102.1
	33	126.2	126.2	126.3	126.3	128.1	126.8	117.8	117.8	117.9	117.9	118.7	117.6

Notes:

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

Table 19. Gross cooling capacities (MBH) TTA0764DD condensing unit with TWE0764DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2250	75	74.5	64.4	81.6	49.0	88.7	32.9	71.1	62.8	77.7	47.5	84.5	31.4	67.4	61.1	73.6	45.8	80.0	29.8
	80	76.0	76.0	81.8	61.4	88.6	45.3	73.0	73.0	77.9	59.8	84.3	43.8	69.8	69.8	73.8	58.1	79.8	42.3
	85	80.0	80.0	82.3	73.7	88.5	57.7	76.8	76.8	78.5	72.1	84.2	56.2	73.4	73.4	74.5	70.4	79.8	54.7
	90	83.9	83.9	84.0	84.0	88.6	70.0	80.5	80.5	80.7	80.7	84.4	68.5	77.0	77.0	77.1	77.1	80.0	66.9
2500	75	75.9	68.3	82.7	51.3	89.6	33.4	72.4	66.7	78.7	49.7	85.2	31.9	68.7	65.0	74.5	48.1	80.7	30.3
	80	78.3	78.3	82.9	64.9	89.4	47.2	75.1	75.1	79.0	63.3	85.1	45.7	71.8	71.8	74.8	61.6	80.5	44.1
	85	82.5	82.5	83.7	78.6	89.3	60.9	79.1	79.1	79.8	77.0	85.0	59.4	75.5	75.5	75.8	75.4	80.5	57.8
	90	86.3	86.3	86.4	86.4	89.6	74.4	82.7	82.7	82.8	82.8	85.3	72.9	78.9	78.9	79.0	79.0	80.8	71.3
2750	75	77.1	72.1	83.6	53.5	90.2	33.9	73.5	70.5	79.5	51.9	85.8	32.4	69.8	68.8	75.2	50.3	81.2	30.8
	80	80.4	80.4	83.9	68.4	90.1	49.0	77.0	77.0	79.9	66.7	85.6	47.5	73.4	73.4	75.6	65.1	81.0	46.0
	85	84.5	84.5	85.0	83.4	90.0	64.0	80.9	80.9	81.1	81.1	85.6	62.5	77.2	77.2	77.2	77.2	81.0	60.9
	90	88.2	88.2	88.3	88.3	90.4	78.9	84.4	84.4	84.5	84.5	86.0	77.3	80.4	80.4	80.5	80.5	81.4	75.7
3000	75	78.1	76.0	84.3	55.6	90.7	34.3	74.4	74.4	80.2	54.0	86.3	32.9	70.9	70.9	75.8	52.3	81.6	31.3
	80	82.1	82.1	84.8	71.8	90.5	50.8	78.6	78.6	80.7	70.2	86.1	49.3	74.9	74.9	76.4	68.5	81.4	47.8
	85	86.1	86.1	86.3	86.3	90.6	67.1	82.4	82.4	82.5	82.5	86.1	65.5	78.5	78.5	78.6	78.6	81.5	63.9
	90	89.6	89.6	89.7	89.7	91.4	83.4	85.7	85.7	85.8	85.8	86.7	81.7	81.5	81.5	81.6	81.6	81.9	79.7

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
2250	75	63.6	59.4	69.4	44.2	75.2	28.2	59.7	57.6	64.9	42.5	70.1	26.5
	80	66.4	66.4	69.6	56.4	75.1	40.6	62.7	62.7	65.1	54.6	70.0	38.9
	85	69.8	69.8	70.3	68.7	75.0	53.0	66.0	66.0	66.1	66.1	69.9	51.2
	90	73.1	73.1	73.2	73.2	75.2	65.2	68.8	68.8	68.9	68.9	70.2	63.4
2500	75	64.7	63.2	70.1	46.4	75.8	28.7	60.8	60.8	65.5	44.7	70.6	27.0
	80	68.2	68.2	70.4	59.9	75.7	42.5	64.3	64.3	65.9	58.1	70.5	40.8
	85	71.6	71.6	71.7	71.7	75.7	56.1	67.5	67.5	67.5	67.5	70.5	54.3
	90	74.8	74.8	74.9	74.9	76.0	69.6	70.2	70.2	70.3	70.3	70.8	67.8
2750	75	66.0	66.0	70.7	48.5	76.3	29.2	62.2	62.2	66.1	46.7	71.1	27.5
	80	69.7	69.7	71.2	63.3	76.1	44.3	65.7	65.7	66.6	61.5	70.9	42.6
	85	73.1	73.1	73.2	73.2	76.1	59.2	68.7	68.7	68.8	68.8	70.9	57.4
	90	76.1	76.1	76.1	76.1	76.6	74.0	71.3	71.3	71.3	71.3	71.4	71.4
3000	75	67.2	67.2	71.3	50.6	76.7	29.7	63.3	63.3	66.6	48.8	71.4	28.0
	80	70.9	70.9	71.9	66.7	76.5	46.2	66.7	66.7	67.2	64.9	71.2	44.5
	85	74.3	74.3	74.4	74.4	76.5	62.2	69.7	69.7	69.8	69.8	71.2	60.4
	90	77.0	77.0	77.1	77.1	77.1	77.1	72.0	72.0	72.0	72.0	72.1	72.1

Notes:

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

Table 20. Gross cooling capacities (kW) TTA0764DD condensing unit with TWE0764DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	21.8	18.9	23.9	14.4	26.0	9.6	20.8	18.4	22.8	13.9	24.7	9.2	19.8	17.9	21.6	13.4	23.4	8.7
	27	22.3	22.3	24.0	18.0	26.0	13.3	21.4	21.4	22.8	17.5	24.7	12.8	20.4	20.4	21.6	17.0	23.4	12.4
	30	23.4	23.4	24.1	21.6	25.9	16.9	22.5	22.5	23.0	21.1	24.7	16.5	21.5	21.5	21.8	20.6	23.4	16.0
	33	24.6	24.6	24.6	24.6	26.0	20.5	23.6	23.6	23.6	23.6	24.7	20.1	22.5	22.5	22.6	22.6	23.4	19.6
4248	24	22.2	20.0	24.2	15.0	26.2	9.8	21.2	19.5	23.1	14.6	25.0	9.3	20.1	19.0	21.8	14.1	23.6	8.9
	27	23.0	23.0	24.3	19.0	26.2	13.8	22.0	22.0	23.1	18.5	24.9	13.4	21.0	21.0	21.9	18.1	23.6	12.9
	30	24.2	24.2	24.5	23.0	26.2	17.9	23.2	23.2	23.4	22.6	24.9	17.4	22.1	22.1	22.2	22.1	23.6	16.9
	33	25.3	25.3	25.3	25.3	26.2	21.8	24.2	24.2	24.3	24.3	25.0	21.4	23.1	23.1	23.1	23.1	23.7	20.9
4672	24	22.6	21.1	24.5	15.7	26.4	9.9	21.5	20.7	23.3	15.2	25.1	9.5	20.4	20.2	22.0	14.7	23.8	9.0
	27	23.5	23.5	24.6	20.0	26.4	14.4	22.6	22.6	23.4	19.6	25.1	13.9	21.5	21.5	22.2	19.1	23.7	13.5
	30	24.8	24.8	24.9	24.4	26.4	18.8	23.7	23.7	23.8	23.8	25.1	18.3	22.6	22.6	22.6	22.6	23.7	17.8
	33	25.8	25.8	25.9	25.9	26.5	23.1	24.7	24.7	24.8	24.8	25.2	22.7	23.6	23.6	23.6	23.6	23.8	22.2
5097	24	22.9	22.3	24.7	16.3	26.6	10.1	21.8	21.8	23.5	15.8	25.3	9.6	20.8	20.8	22.2	15.3	23.9	9.2
	27	24.1	24.1	24.8	21.0	26.5	14.9	23.0	23.0	23.6	20.6	25.2	14.5	21.9	21.9	22.4	20.1	23.9	14.0
	30	25.2	25.2	25.3	25.3	26.6	19.7	24.2	24.2	24.2	24.2	25.2	19.2	23.0	23.0	23.0	23.0	23.9	18.7
	33	26.3	26.3	26.3	26.3	26.8	24.4	25.1	25.1	25.1	25.1	25.4	24.0	23.9	23.9	23.9	23.9	24.0	23.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
3823	24	18.6	17.4	20.3	12.9	22.0	8.3	17.5	16.9	19.0	12.4	20.6	7.8
	27	19.4	19.4	20.4	16.5	22.0	11.9	18.4	18.4	19.1	16.0	20.5	11.4
	30	20.5	20.5	20.6	20.1	22.0	15.5	19.3	19.3	19.4	19.4	20.5	15.0
	33	21.4	21.4	21.4	21.4	22.0	19.1	20.2	20.2	20.2	20.2	20.6	18.6
4248	24	19.0	18.5	20.5	13.6	22.2	8.4	17.8	17.8	19.2	13.1	20.7	7.9
	27	20.0	20.0	20.6	17.5	22.2	12.5	18.9	18.9	19.3	17.0	20.6	11.9
	30	21.0	21.0	21.0	21.0	22.2	16.4	19.8	19.8	19.8	19.8	20.6	15.9
	33	21.9	21.9	21.9	21.9	22.3	20.4	20.6	20.6	20.6	20.6	20.7	19.9
4672	24	19.3	19.3	20.7	14.2	22.4	8.6	18.2	18.2	19.4	13.7	20.8	8.1
	27	20.4	20.4	20.9	18.6	22.3	13.0	19.2	19.2	19.5	18.0	20.8	12.5
	30	21.4	21.4	21.4	21.4	22.3	17.3	20.1	20.1	20.2	20.2	20.8	16.8
	33	22.3	22.3	22.3	22.3	22.4	21.7	20.9	20.9	20.9	20.9	20.9	20.9
5097	24	19.7	19.7	20.9	14.8	22.5	8.7	18.6	18.6	19.5	14.3	20.9	8.2
	27	20.8	20.8	21.1	19.6	22.4	13.5	19.6	19.6	19.7	19.0	20.9	13.0
	30	21.8	21.8	21.8	21.8	22.4	18.2	20.4	20.4	20.4	20.4	20.9	17.7
	33	22.6	22.6	22.6	22.6	22.6	22.6	21.1	21.1	21.1	21.1	21.1	21.1

Notes:

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

Table 21. Gross cooling capacities (MBH) TTA1014DA condensing unit with TWE1014DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	100.4	86.1	110.1	66.1	119.3	44.4	95.9	84.0	105.0	64.1	113.8	42.4	91.3	81.8	99.5	61.9	107.9	40.4
	80	102.4	102.4	110.5	82.4	119.2	61.1	98.4	98.4	105.5	80.3	113.7	59.1	94.3	94.3	100.1	78.0	107.8	57.1
	85	108.1	108.1	111.5	98.7	119.2	77.7	103.9	103.9	106.5	96.6	113.7	75.6	99.5	99.5	101.2	94.3	107.8	73.4
	90	113.4	113.4	113.6	113.6	119.4	93.6	109.1	109.1	109.2	109.2	113.8	91.5	104.3	104.3	104.5	104.5	107.9	89.3
3350	75	102.3	91.1	111.6	69.1	120.3	45.0	97.6	88.9	106.3	67.0	114.7	43.1	92.9	86.6	100.8	64.9	108.7	41.0
	80	105.6	105.6	112.1	86.8	120.1	63.4	101.4	101.4	107.0	84.7	114.5	61.5	96.9	96.9	101.5	82.4	108.5	59.4
	85	111.3	111.3	113.3	104.9	120.1	81.4	106.9	106.9	108.3	102.8	114.4	79.3	102.2	102.2	102.9	100.5	108.4	77.1
	90	116.4	116.4	116.5	116.5	120.1	99.1	111.7	111.7	111.9	111.9	114.4	96.9	106.6	106.6	106.7	106.7	108.3	94.6
3675	75	103.9	95.9	112.8	71.9	121.1	45.6	99.1	93.7	107.4	69.6	115.4	43.7	94.3	91.4	101.7	67.3	109.3	41.6
	80	108.3	108.3	113.5	91.2	120.8	65.7	103.9	103.9	108.2	89.0	115.1	63.8	99.2	99.2	102.6	86.7	109.0	61.8
	85	114.0	114.0	114.9	111.0	120.7	85.1	109.4	109.4	109.8	108.9	114.9	83.0	104.4	104.4	104.5	104.5	108.7	80.7
	90	118.6	118.6	118.7	118.7	120.8	104.5	113.5	113.5	113.6	113.6	114.7	102.2	108.0	108.0	108.0	108.0	108.3	99.8
4000	75	105.4	100.7	113.8	74.8	121.7	46.2	100.6	98.5	108.3	72.2	115.9	44.3	95.6	95.6	102.6	69.8	109.8	42.3
	80	110.6	110.6	114.6	95.5	121.3	68.1	106.0	106.0	109.3	93.3	115.5	66.1	101.2	101.2	103.6	90.9	109.3	64.1
	85	116.1	116.1	116.4	116.4	121.0	88.8	111.3	111.3	111.4	111.4	115.1	86.6	106.1	106.1	106.2	106.2	108.8	84.3
	90	120.0	120.0	120.0	120.0	121.8	110.1	114.5	114.5	114.5	114.5	115.4	107.7	108.3	108.3	108.2	108.2	108.7	105.2

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	86.7	79.6	94.0	59.8	101.5	38.2	82.6	77.7	88.6	57.7	94.5	35.8
	80	90.1	90.1	94.5	75.6	101.4	54.9	85.8	85.8	88.9	73.3	94.3	52.5
	85	94.7	94.7	95.7	92.0	101.3	70.9	89.6	89.6	89.8	89.5	94.1	68.3
	90	99.1	99.1	99.2	99.2	101.3	86.8	93.0	93.0	93.1	93.1	93.9	84.1
3350	75	88.2	84.4	95.0	62.6	102.1	38.8	83.8	82.4	89.4	59.9	95.0	36.5
	80	92.4	92.4	95.7	80.0	101.9	57.2	87.7	87.7	89.8	77.5	94.7	54.8
	85	97.1	97.1	97.3	97.3	101.7	74.6	91.5	91.5	91.5	91.5	94.3	71.9
	90	100.8	100.8	100.9	100.9	101.4	92.1	93.9	93.9	93.8	93.8	93.6	89.2
3675	75	89.6	89.2	95.8	64.8	102.7	39.5	85.1	85.1	90.0	62.4	95.4	37.1
	80	94.3	94.3	96.8	84.2	102.3	59.5	89.2	89.2	90.4	81.6	94.9	57.1
	85	99.0	99.0	99.1	99.1	101.9	78.2	92.9	92.9	92.9	92.9	94.3	75.4
	90	101.4	101.4	101.4	101.4	101.2	97.2	93.1	93.1	93.1	93.1	93.0	93.0
4000	75	91.0	91.0	96.6	67.3	103.1	40.1	86.4	86.4	90.5	64.8	95.7	37.7
	80	96.0	96.0	97.6	88.5	102.5	61.9	90.3	90.3	91.2	85.8	95.0	59.5
	85	100.3	100.3	100.4	100.4	101.9	81.7	93.7	93.7	93.8	93.8	94.1	78.8
	90	101.3	101.3	101.4	101.4	101.4	101.4	92.9	92.9	92.8	92.8	92.7	92.7

Notes:

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

Table 22. Gross cooling capacities (kW) TTA1014DA condensing unit with TWE1014DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	29.4	25.2	32.3	19.4	35.0	13.0	28.1	24.6	30.8	18.8	33.3	12.4	26.7	24.0	29.2	18.1	31.6	11.8
	27	30.0	30.0	32.4	24.1	34.9	17.9	28.8	28.8	30.9	23.5	33.3	17.3	27.6	27.6	29.3	22.9	31.6	16.7
	30	31.7	31.7	32.7	28.9	34.9	22.8	30.4	30.4	31.2	28.3	33.3	22.1	29.1	29.1	29.7	27.6	31.6	21.5
	33	33.2	33.2	33.3	33.3	35.0	27.4	32.0	32.0	32.0	32.0	33.3	26.8	30.6	30.6	30.6	30.6	31.6	26.2
5692	24	30.0	26.7	32.7	20.2	35.3	13.2	28.6	26.0	31.2	19.6	33.6	12.6	27.2	25.4	29.5	19.0	31.8	12.0
	27	30.9	30.9	32.9	25.4	35.2	18.6	29.7	29.7	31.3	24.8	33.6	18.0	28.4	28.4	29.7	24.1	31.8	17.4
	30	32.6	32.6	33.2	30.7	35.2	23.9	31.3	31.3	31.7	30.1	33.5	23.2	30.0	30.0	30.2	29.4	31.8	22.6
	33	34.1	34.1	34.1	34.1	35.2	29.0	32.7	32.7	32.8	32.8	33.5	28.4	31.2	31.2	31.3	31.3	31.7	27.7
6252	24	30.4	28.1	33.0	21.1	35.5	13.4	29.0	27.4	31.5	20.4	33.8	12.8	27.6	26.8	29.8	19.7	32.0	12.2
	27	31.7	31.7	33.2	26.7	35.4	19.3	30.4	30.4	31.7	26.1	33.7	18.7	29.1	29.1	30.1	25.4	31.9	18.1
	30	33.4	33.4	33.7	32.5	35.4	24.9	32.0	32.0	32.2	31.9	33.7	24.3	30.6	30.6	30.6	30.6	31.9	23.7
	33	34.7	34.7	34.8	34.8	35.4	30.6	33.3	33.3	33.3	33.3	33.6	29.9	31.6	31.6	31.6	31.6	31.7	29.3
6796	24	30.9	29.5	33.3	21.9	35.7	13.5	29.5	28.9	31.7	21.1	34.0	13.0	28.0	28.0	30.1	20.5	32.2	12.4
	27	32.4	32.4	33.6	28.0	35.5	19.9	31.1	31.1	32.0	27.3	33.8	19.4	29.6	29.6	30.4	26.6	32.0	18.8
	30	34.0	34.0	34.1	34.1	35.5	26.0	32.6	32.6	32.6	32.6	33.7	25.4	31.1	31.1	31.1	31.1	31.9	24.7
	33	35.2	35.2	35.2	35.2	35.7	32.2	33.5	33.5	33.5	33.5	33.8	31.5	31.7	31.7	31.7	31.7	31.8	30.8

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	25.4	23.3	27.5	17.5	29.7	11.2	24.2	22.8	26.0	16.9	27.7	10.5
	27	26.4	26.4	27.7	22.2	29.7	16.1	25.1	25.1	26.1	21.5	27.6	15.4
	30	27.8	27.8	28.0	26.9	29.7	20.8	26.3	26.3	26.3	26.2	27.6	20.0
	33	29.0	29.0	29.1	29.1	29.7	25.4	27.3	27.3	27.3	27.3	27.5	24.6
5692	24	25.8	24.7	27.8	18.4	29.9	11.4	24.6	24.1	26.2	17.6	27.8	10.7
	27	27.1	27.1	28.0	23.4	29.9	16.8	25.7	25.7	26.3	22.7	27.7	16.1
	30	28.5	28.5	28.5	28.5	29.8	21.9	26.8	26.8	26.8	26.8	27.6	21.1
	33	29.5	29.5	29.6	29.6	29.7	27.0	27.5	27.5	27.5	27.5	27.4	26.1
6252	24	26.2	26.1	28.1	19.0	30.1	11.6	24.9	24.9	26.4	18.3	28.0	10.9
	27	27.6	27.6	28.3	24.7	30.0	17.4	26.1	26.1	26.5	23.9	27.8	16.7
	30	29.0	29.0	29.0	29.0	29.9	22.9	27.2	27.2	27.2	27.2	27.6	22.1
	33	29.7	29.7	29.7	29.7	29.6	28.5	27.3	27.3	27.3	27.3	27.2	27.2
6796	24	26.7	26.7	28.3	19.7	30.2	11.7	25.3	25.3	26.5	19.0	28.1	11.1
	27	28.1	28.1	28.6	25.9	30.0	18.1	26.5	26.5	26.7	25.1	27.8	17.4
	30	29.4	29.4	29.4	29.4	29.9	24.0	27.5	27.5	27.5	27.5	27.6	23.1
	33	29.7	29.7	29.7	29.7	29.7	29.7	27.2	27.2	27.2	27.2	27.2	27.2

Notes:

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

Table 23. Gross cooling capacities (MBH) TTA1014DD condensing unit with TWE1014DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	97.7	84.9	106.5	64.6	114.6	42.7	93.3	82.8	101.8	62.8	110.5	41.2	88.9	80.7	97.1	60.9	105.6	39.5
	80	99.8	99.8	106.7	80.9	114.5	59.3	96.0	96.0	102.1	78.9	109.3	57.5	92.2	92.2	97.5	77.0	105.5	56.2
	85	104.9	104.9	107.5	97.1	114.4	75.9	101.1	101.1	103.0	95.2	109.3	74.0	97.1	97.1	98.4	93.2	105.4	72.6
	90	109.8	109.8	110.0	110.0	114.7	92.0	105.8	105.8	106.0	106.0	109.6	90.1	101.8	101.8	101.9	101.9	105.7	88.6
3350	75	99.4	89.8	107.8	67.5	115.8	43.4	95.0	87.7	103.0	65.6	110.5	41.6	90.5	85.6	98.2	63.7	106.6	40.2
	80	102.6	102.6	108.2	85.3	115.7	61.8	98.8	98.8	103.5	83.3	110.4	60.0	94.7	94.7	98.7	81.3	106.4	58.7
	85	107.8	107.8	109.2	103.3	115.7	79.9	103.8	103.8	104.6	101.3	110.4	78.0	99.7	99.7	100.1	99.4	106.4	76.5
	90	111.8	111.8	112.0	112.0	116.1	97.7	107.5	107.5	107.6	107.6	110.9	95.8	104.2	104.2	104.3	104.3	106.7	94.2
3675	75	100.8	94.6	108.9	70.3	116.8	44.1	96.5	92.5	104.1	68.3	111.4	42.3	92.0	90.4	99.2	66.3	107.4	40.9
	80	105.1	105.1	109.4	89.6	116.7	64.3	101.0	101.0	104.6	87.6	111.3	62.5	96.9	96.9	99.8	85.6	107.2	61.1
	85	110.3	110.3	110.8	109.4	116.7	83.8	106.1	106.1	106.3	106.3	111.4	81.9	101.8	101.8	101.9	101.9	107.2	80.3
	90	114.3	114.3	114.4	114.4	117.5	103.4	109.8	109.8	109.9	109.9	112.0	101.4	106.2	106.2	106.3	106.3	107.7	99.8
4000	75	102.1	99.5	109.8	72.9	117.7	44.8	97.6	97.6	104.9	70.9	112.2	43.0	93.4	93.4	100.0	68.9	108.1	41.6
	80	107.2	107.2	110.4	93.9	117.5	66.8	103.0	103.0	105.6	91.9	112.0	64.9	98.7	98.7	100.8	89.9	107.8	63.4
	85	111.4	111.4	111.6	111.6	117.6	87.7	107.9	107.9	108.0	108.0	112.2	85.7	103.6	103.6	103.7	103.7	107.8	84.1
	90	116.5	116.5	116.7	116.7	118.8	109.1	111.8	111.8	111.9	111.9	113.0	106.9	107.8	107.8	107.9	107.9	108.5	105.3

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
3025	75	84.1	78.4	91.8	58.8	100.1	37.7	78.7	75.9	86.0	56.5	93.9	35.6
	80	87.9	87.9	92.3	74.8	100.1	54.3	83.1	83.1	86.5	72.4	93.9	52.3
	85	92.8	92.8	93.5	91.1	100.1	70.6	87.8	87.8	88.1	87.6	94.0	68.4
	90	97.3	97.3	97.4	97.4	100.4	86.6	92.2	92.2	92.3	92.3	94.4	84.4
3350	75	85.7	83.3	92.9	61.5	101.1	38.4	80.2	80.2	87.0	59.1	94.8	36.3
	80	90.3	90.3	93.6	79.2	101.0	56.8	85.3	85.3	87.7	76.7	94.7	54.7
	85	95.2	95.2	95.3	95.3	101.0	74.5	90.0	90.0	90.2	90.2	94.9	72.2
	90	99.6	99.6	99.7	99.7	101.4	92.2	94.3	94.3	94.4	94.4	95.4	90.0
3675	75	87.1	87.1	93.9	64.1	101.8	39.1	82.1	82.1	87.8	61.6	95.5	37.0
	80	92.4	92.4	94.6	83.5	101.7	59.2	87.2	87.2	88.7	81.0	95.4	57.0
	85	97.2	97.2	97.3	97.3	101.7	78.3	91.9	91.9	91.9	91.9	95.6	76.0
	90	101.4	101.4	101.5	101.5	102.3	97.8	96.0	96.0	95.0	95.0	95.4	93.5
4000	75	88.8	88.8	94.6	66.7	102.5	39.8	83.6	83.6	88.5	64.2	96.0	37.7
	80	94.1	94.1	95.5	87.7	102.3	61.4	88.8	88.8	89.6	85.2	96.0	59.1
	85	98.8	98.8	98.9	98.9	101.2	81.7	93.4	93.4	93.5	93.5	96.2	79.8
	90	102.9	102.9	102.9	102.9	102.3	102.3	96.3	96.3	96.4	96.4	96.5	96.5

Notes:

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

Table 24. Gross cooling capacities (kW) TTA1014DD condensing unit with TWE1014DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	28.6	24.9	31.2	18.9	33.6	12.5	27.4	24.3	29.8	18.4	32.4	12.1	26.1	23.7	28.4	17.9	30.9	11.6
	27	29.2	29.2	31.3	23.7	33.5	17.4	28.1	28.1	29.9	23.1	32.0	16.9	27.0	27.0	28.6	22.6	30.9	16.5
	30	30.8	30.8	31.5	28.5	33.5	22.3	29.6	29.6	30.2	27.9	32.0	21.7	28.5	28.5	28.8	27.3	30.9	21.3
	33	32.2	32.2	32.2	32.2	33.6	27.0	31.0	31.0	31.1	31.1	32.1	26.4	29.8	29.8	29.9	29.9	31.0	26.0
5692	24	29.1	26.3	31.6	19.8	33.9	12.7	27.8	25.7	30.2	19.2	32.4	12.2	26.5	25.1	28.8	18.7	31.2	11.8
	27	30.1	30.1	31.7	25.0	33.9	18.1	28.9	28.9	30.3	24.4	32.3	17.6	27.8	27.8	28.9	23.8	31.2	17.2
	30	31.6	31.6	32.0	30.3	33.9	23.4	30.4	30.4	30.7	29.7	32.4	22.9	29.2	29.2	29.3	29.1	31.2	22.4
	33	32.8	32.8	32.8	32.8	34.0	28.6	31.5	31.5	31.5	31.5	32.5	28.1	30.5	30.5	30.6	30.6	31.3	27.6
6252	24	29.6	27.7	31.9	20.6	34.2	12.9	28.3	27.1	30.5	20.0	32.6	12.4	27.0	26.5	29.1	19.4	31.5	12.0
	27	30.8	30.8	32.1	26.3	34.2	18.8	29.6	29.6	30.7	25.7	32.6	18.3	28.4	28.4	29.2	25.1	31.4	17.9
	30	32.3	32.3	32.5	32.1	34.2	24.6	31.1	31.1	31.1	31.1	32.6	24.0	29.8	29.8	29.9	29.9	31.4	23.5
	33	33.5	33.5	33.5	33.5	34.4	30.3	32.2	32.2	32.2	32.2	32.8	29.7	31.1	31.1	31.2	31.2	31.6	29.2
6796	24	29.9	29.2	32.2	21.4	34.5	13.1	28.6	28.6	30.8	20.8	32.9	12.6	27.4	27.4	29.3	20.2	31.7	12.2
	27	31.4	31.4	32.4	27.5	34.4	19.6	30.2	30.2	30.9	26.9	32.8	19.0	28.9	28.9	29.5	26.3	31.6	18.6
	30	32.6	32.6	32.7	32.7	34.5	25.7	31.6	31.6	31.7	31.7	32.9	25.1	30.4	30.4	30.4	30.4	31.6	24.6
	33	34.1	34.1	34.2	34.2	34.8	32.0	32.8	32.8	32.8	32.8	33.1	31.3	31.6	31.6	31.6	31.6	31.8	30.8

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	24.6	23.0	26.9	17.2	29.3	11.0	23.1	22.2	25.2	16.5	27.5	10.4
	27	25.8	25.8	27.1	21.9	29.3	15.9	24.3	24.3	25.4	21.2	27.5	15.3
	30	27.2	27.2	27.4	26.7	29.3	20.7	25.7	25.7	25.8	25.7	27.5	20.0
	33	28.5	28.5	28.6	28.6	29.4	25.4	27.0	27.0	27.1	27.1	27.7	24.7
5692	24	25.1	24.4	27.2	18.0	29.6	11.3	23.5	23.5	25.5	17.3	27.8	10.6
	27	26.5	26.5	27.4	23.2	29.6	16.7	25.0	25.0	25.7	22.5	27.8	16.0
	30	27.9	27.9	27.9	27.9	29.6	21.8	26.4	26.4	26.4	26.4	27.8	21.2
	33	29.2	29.2	29.2	29.2	29.7	27.0	27.6	27.6	27.7	27.7	28.0	26.4
6252	24	25.5	25.5	27.5	18.8	29.8	11.5	24.0	24.0	25.7	18.1	28.0	10.9
	27	27.1	27.1	27.7	24.5	29.8	17.3	25.5	25.5	26.0	23.7	28.0	16.7
	30	28.5	28.5	28.5	28.5	29.8	23.0	26.9	26.9	26.9	26.9	28.0	22.3
	33	29.7	29.7	29.7	29.7	30.0	28.7	28.1	28.1	27.8	27.8	28.0	27.4
6796	24	26.0	26.0	27.7	19.5	30.0	11.7	24.5	24.5	26.0	18.8	28.1	11.1
	27	27.6	27.6	28.0	25.7	30.0	18.0	26.0	26.0	26.3	25.0	28.1	17.3
	30	29.0	29.0	29.0	29.0	29.7	23.9	27.4	27.4	27.4	27.4	28.2	23.4
	33	30.1	30.1	30.2	30.2	30.0	30.0	28.2	28.2	28.3	28.3	28.3	28.3

Notes:

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

Table 25. Gross cooling capacities (MBH) one compressor - TTA1014DC condensing unit with TWE1014DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	60.1	60.1	63.7	47.0	69.8	27.5	57.8	57.8	60.8	45.9	66.7	26.4	55.6	55.6	58.3	44.9	63.9	25.5
	80	63.7	63.7	63.7	63.7	69.4	43.6	61.2	61.2	61.3	61.3	66.3	42.6	59.0	59.0	59.0	59.0	63.6	41.7
	85	67.1	67.1	67.2	67.2	69.2	58.9	64.5	64.5	64.6	64.6	66.2	57.9	62.2	62.2	62.2	62.2	63.5	56.9
	90	70.3	70.3	70.4	70.4	70.4	70.4	67.5	67.5	67.5	67.5	67.6	67.6	65.1	65.1	65.1	65.1	65.2	65.2
3350	75	61.4	61.4	64.2	49.5	70.3	28.2	59.0	59.0	61.4	48.4	67.1	27.1	56.8	56.8	58.8	47.3	64.3	26.2
	80	65.0	65.0	65.1	65.1	69.9	45.9	62.4	62.4	62.5	62.5	66.8	44.9	60.1	60.1	60.2	60.2	64.0	44.0
	85	68.4	68.4	68.5	68.5	69.7	62.7	65.7	65.7	65.8	65.8	66.7	61.6	63.3	63.3	63.4	63.4	64.0	60.6
	90	71.7	71.7	71.8	71.8	71.9	71.9	68.7	68.7	68.8	68.8	68.8	68.8	66.1	66.1	66.2	66.2	66.2	66.2
3675	75	62.5	62.5	64.7	52.0	70.7	28.8	60.0	60.0	61.8	50.8	67.5	27.8	57.7	57.7	59.3	49.8	64.6	26.9
	80	66.1	66.1	66.2	66.2	70.3	48.2	63.5	63.5	63.5	63.5	67.2	46.3	61.1	61.1	61.2	61.2	64.4	45.2
	85	69.5	69.5	69.6	69.6	70.3	66.4	66.7	66.7	66.8	66.8	66.8	66.8	64.3	64.3	64.3	64.3	64.4	64.4
	90	73.0	73.0	73.0	73.0	73.1	73.1	69.8	69.8	69.9	69.9	69.9	69.9	67.1	67.1	67.1	67.1	67.2	67.2
4000	75	63.4	63.4	65.2	54.4	71.1	29.5	60.8	60.8	62.3	53.2	67.8	28.5	58.5	58.5	59.6	52.1	64.9	27.5
	80	67.1	67.1	67.1	67.1	70.6	49.4	64.4	64.4	64.4	64.4	67.5	48.3	61.9	61.9	62.0	62.0	64.7	47.2
	85	70.5	70.5	70.5	70.5	70.6	70.6	67.6	67.6	67.6	67.6	67.7	67.7	65.1	65.1	65.1	65.1	65.2	65.2
	90	74.0	74.0	74.1	74.1	74.1	74.1	70.8	70.8	70.8	70.8	70.9	70.9	67.9	67.9	68.0	68.0	68.0	68.0

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	53.5	53.5	55.8	43.8	61.1	24.6	51.2	51.2	53.1	42.8	58.2	23.7
	80	56.8	56.8	56.8	56.8	60.9	40.9	54.4	54.4	54.5	54.5	58.1	39.9
	85	59.9	59.9	60.0	60.0	60.9	56.0	57.5	57.5	57.5	57.5	58.2	55.0
	90	62.8	62.8	62.8	62.8	62.9	62.9	60.3	60.3	60.4	60.4	60.4	60.4
3350	75	54.5	54.5	56.3	46.3	61.5	25.3	52.2	52.2	53.6	45.2	58.5	24.4
	80	57.9	57.9	57.9	57.9	61.4	42.2	55.4	55.4	55.5	55.5	58.5	41.2
	85	61.0	61.0	61.1	61.1	61.5	59.7	58.6	58.6	58.6	58.6	58.6	58.6
	90	63.8	63.8	63.9	63.9	63.9	63.9	61.3	61.3	61.3	61.3	61.4	61.4
3675	75	55.4	55.4	56.7	48.7	61.7	26.0	53.0	53.0	54.0	47.6	58.7	25.0
	80	58.8	58.8	58.8	58.8	61.7	44.3	56.3	56.3	56.3	56.3	58.9	43.2
	85	62.0	62.0	62.0	62.0	62.0	62.0	59.4	59.4	59.5	59.5	59.5	59.5
	90	64.6	64.6	64.7	64.7	64.7	64.7	62.1	62.1	62.1	62.1	62.1	62.1
4000	75	56.2	56.2	57.1	51.0	61.9	26.6	53.7	53.7	54.4	49.9	58.8	25.7
	80	59.6	59.6	59.6	59.6	62.0	46.2	57.0	57.0	57.1	57.1	59.1	45.1
	85	62.7	62.7	62.8	62.8	62.8	62.8	60.2	60.2	60.2	60.2	60.2	60.2
	90	65.3	65.3	65.4	65.4	65.4	65.4	62.7	62.7	62.7	62.7	62.8	62.8

Notes:

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

Table 26. Gross cooling capacities (kW) one compressor - TTA1014DC condensing unit with TWE1014DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	17.6	17.6	18.6	13.8	20.5	8.0	16.9	16.9	17.8	13.4	19.5	7.7	16.3	16.3	17.1	13.1	18.7	7.5
	27	18.7	18.7	18.7	18.7	20.3	12.8	17.9	17.9	17.9	17.9	19.4	12.5	17.3	17.3	17.3	17.3	18.6	12.2
	30	19.7	19.7	19.7	19.7	20.3	17.3	18.9	18.9	18.9	18.9	19.4	17.0	18.2	18.2	18.2	18.2	18.6	16.7
	33	20.6	20.6	20.6	20.6	20.6	20.6	19.8	19.8	19.8	19.8	19.8	19.8	19.1	19.1	19.1	19.1	19.1	19.1
5692	24	18.0	18.0	18.8	14.5	20.6	8.2	17.3	17.3	18.0	14.2	19.7	8.0	16.6	16.6	17.2	13.9	18.8	7.7
	27	19.0	19.0	19.1	19.1	20.5	13.5	18.3	18.3	18.3	18.3	19.6	13.2	17.6	17.6	17.6	17.6	18.8	12.9
	30	20.0	20.0	20.1	20.1	20.4	18.4	19.3	19.3	19.3	19.3	19.5	18.1	18.6	18.6	18.6	18.6	18.8	17.8
	33	21.0	21.0	21.0	21.0	21.1	21.1	20.1	20.1	20.2	20.2	20.2	20.2	19.4	19.4	19.4	19.4	19.4	19.4
6252	24	18.3	18.3	19.0	15.2	20.7	8.4	17.6	17.6	18.1	14.9	19.8	8.1	16.9	16.9	17.4	14.6	18.9	7.9
	27	19.4	19.4	19.4	19.4	20.6	14.1	18.6	18.6	18.6	18.6	19.7	13.6	17.9	17.9	17.9	17.9	18.9	13.3
	30	20.4	20.4	20.4	20.4	20.6	19.5	19.6	19.6	19.6	19.6	19.6	19.6	18.8	18.8	18.9	18.9	18.9	18.9
	33	21.4	21.4	21.4	21.4	21.4	21.4	20.5	20.5	20.5	20.5	20.5	20.5	19.7	19.7	19.7	19.7	19.7	19.7
6796	24	18.6	18.6	19.1	15.9	20.8	8.6	17.8	17.8	18.2	15.6	19.9	8.3	17.1	17.1	17.5	15.3	19.0	8.1
	27	19.7	19.7	19.7	19.7	20.7	14.5	18.9	18.9	18.9	18.9	19.8	14.1	18.2	18.2	18.2	18.2	19.0	13.8
	30	20.6	20.6	20.7	20.7	20.7	20.7	19.8	19.8	19.8	19.8	19.8	19.8	19.1	19.1	19.1	19.1	19.1	19.1
	33	21.7	21.7	21.7	21.7	21.7	21.7	20.7	20.7	20.8	20.8	20.8	20.8	19.9	19.9	19.9	19.9	19.9	19.9

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	15.7	15.7	16.3	12.8	17.9	7.2	15.0	15.0	15.6	12.5	17.0	6.9
	27	16.6	16.6	16.6	16.6	17.9	12.0	15.9	15.9	16.0	16.0	17.0	11.7
	30	17.6	17.6	17.6	17.6	17.9	16.4	16.8	16.8	16.9	16.9	17.1	16.1
	33	18.4	18.4	18.4	18.4	18.4	18.4	17.7	17.7	17.7	17.7	17.7	17.7
5692	24	16.0	16.0	16.5	13.6	18.0	7.4	15.3	15.3	15.7	13.2	17.1	7.1
	27	17.0	17.0	17.0	17.0	18.0	12.4	16.2	16.2	16.3	16.3	17.1	12.1
	30	17.9	17.9	17.9	17.9	18.0	17.5	17.2	17.2	17.2	17.2	17.2	17.2
	33	18.7	18.7	18.7	18.7	18.7	18.7	18.0	18.0	18.0	18.0	18.0	18.0
6252	24	16.2	16.2	16.6	14.3	18.1	7.6	15.5	15.5	15.8	13.9	17.2	7.3
	27	17.2	17.2	17.2	17.2	18.1	13.0	16.5	16.5	16.5	16.5	17.2	12.6
	30	18.2	18.2	18.2	18.2	18.2	18.2	17.4	17.4	17.4	17.4	17.4	17.4
	33	18.9	18.9	18.9	18.9	19.0	19.0	18.2	18.2	18.2	18.2	18.2	18.2
6796	24	16.5	16.5	16.7	15.0	18.1	7.8	15.7	15.7	15.9	14.6	17.2	7.5
	27	17.5	17.5	17.5	17.5	18.2	13.5	16.7	16.7	16.7	16.7	17.3	13.2
	30	18.4	18.4	18.4	18.4	18.4	18.4	17.6	17.6	17.6	17.6	17.6	17.6
	33	19.1	19.1	19.2	19.2	19.2	19.2	18.4	18.4	18.4	18.4	18.4	18.4

Notes:

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

Table 27. Gross cooling capacities (MBH) both compressors - TTA1014DC condensing unit with TWE1014DA air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	98.7	84.7	108.4	64.7	117.5	43.5	94.8	82.8	104.1	63.0	112.8	41.8	90.6	80.8	99.6	61.2	108.2	40.2
	80	99.8	99.8	107.9	80.6	117.0	59.6	96.4	96.4	103.6	78.8	112.3	57.9	92.8	92.8	99.2	76.9	107.7	56.3
	85	104.7	104.7	108.0	96.3	116.6	75.7	101.2	101.2	103.7	94.5	111.8	74.0	97.5	97.5	99.4	92.7	107.2	72.4
	90	109.4	109.4	109.5	109.5	116.2	91.5	105.7	105.7	105.8	105.8	111.5	89.7	102.0	102.0	102.1	102.1	106.9	88.0
3350	75	100.5	89.3	109.8	67.5	118.8	44.2	96.4	87.4	105.4	65.7	113.9	42.5	92.2	85.5	100.9	63.9	109.2	40.8
	80	102.7	102.7	109.4	84.8	118.4	62.0	99.2	99.2	105.0	83.0	113.4	60.2	95.5	95.5	100.5	81.1	108.7	58.6
	85	107.7	107.7	109.6	102.2	118.0	79.7	104.0	104.0	105.3	100.3	112.7	78.3	100.2	100.2	101.0	98.5	108.1	76.3
	90	112.3	112.3	112.4	112.4	117.8	97.0	108.4	108.4	108.6	108.6	112.6	95.1	104.5	104.5	104.7	104.7	107.9	93.3
3675	75	101.9	93.9	110.9	70.1	120.0	44.9	97.8	92.0	106.4	68.4	114.8	43.1	93.6	90.0	101.9	66.6	110.1	41.5
	80	105.2	105.2	110.6	88.9	119.6	64.3	101.5	101.5	106.1	87.1	114.3	62.5	97.7	97.7	101.6	85.2	109.5	60.8
	85	110.2	110.2	111.1	107.9	119.1	83.5	106.3	106.3	106.8	106.1	113.8	81.5	102.4	102.4	102.6	102.6	108.9	79.7
	90	114.7	114.7	114.8	114.8	119.1	102.3	110.6	110.6	110.8	110.8	113.8	100.4	106.6	106.6	106.7	106.7	108.8	98.5
4000	75	103.3	98.4	111.9	72.7	121.0	45.6	98.5	98.5	107.3	71.0	115.6	43.8	94.6	94.6	102.7	69.2	110.8	42.1
	80	107.4	107.4	111.6	92.9	120.6	66.6	103.6	103.6	107.1	91.1	115.2	64.8	99.7	99.7	102.6	89.2	110.1	63.1
	85	112.3	112.3	112.5	112.5	120.1	87.1	108.3	108.3	108.4	108.4	114.7	85.2	104.3	104.3	104.4	104.4	109.6	83.3
	90	117.1	117.1	117.2	117.2	120.3	107.6	112.6	112.6	112.7	112.7	114.9	105.6	108.3	108.3	108.4	108.4	109.7	103.7

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3025	75	86.0	78.6	94.8	59.2	103.2	38.4	80.9	76.2	89.2	57.1	97.4	36.4
	80	88.9	88.9	94.4	74.9	102.7	54.5	84.4	84.4	88.9	72.6	96.9	52.5
	85	93.5	93.5	94.7	90.7	102.2	70.6	88.9	88.9	89.4	88.4	96.4	68.6
	90	97.9	97.9	98.0	98.0	101.9	86.1	93.1	93.1	93.2	93.2	96.2	84.0
3350	75	87.6	83.3	95.9	62.0	104.1	39.1	82.0	82.0	90.3	59.8	98.3	37.1
	80	91.4	91.4	95.7	79.1	103.6	56.8	86.8	86.8	90.1	76.8	97.8	54.9
	85	96.1	96.1	96.4	96.4	103.1	74.2	91.3	91.3	91.4	91.4	97.2	72.1
	90	100.3	100.3	100.4	100.4	102.9	91.4	95.3	95.3	95.4	95.4	97.1	89.3
3675	75	88.6	88.6	96.9	64.7	105.0	39.8	83.9	83.9	91.1	62.5	99.0	37.8
	80	93.5	93.5	96.7	83.2	104.4	59.1	88.7	88.7	91.1	80.9	98.5	57.1
	85	98.1	98.1	98.3	98.3	103.8	77.9	93.2	93.2	93.3	93.3	97.9	75.7
	90	102.2	102.2	102.3	102.3	103.7	96.7	97.1	97.1	97.2	97.2	97.9	94.5
4000	75	90.4	90.4	97.7	67.3	105.6	40.4	85.6	85.6	91.9	65.1	99.6	38.4
	80	95.4	95.4	97.6	87.2	105.0	61.3	90.4	90.4	92.0	84.8	99.0	59.4
	85	99.9	99.9	100.0	100.0	104.4	81.4	94.8	94.8	94.9	94.9	98.5	79.3
	90	103.8	103.8	103.8	103.8	104.5	101.8	98.5	98.5	98.6	98.6	98.7	98.7

Notes:

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

Table 28. Gross cooling capacities (kW) both compressors - TTA1014DC condensing unit with TWE1014DA air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	28.9	24.8	31.8	19.0	34.4	12.7	27.8	24.3	30.5	18.4	33.1	12.2	26.6	23.7	29.2	17.9	31.7	11.8
	27	29.2	29.2	31.6	23.6	34.3	17.5	28.2	28.2	30.4	23.1	32.9	17.0	27.2	27.2	29.1	22.5	31.6	16.5
	30	30.7	30.7	31.6	28.2	34.2	22.2	29.6	29.6	30.4	27.7	32.8	21.7	28.6	28.6	29.1	27.1	31.4	21.2
	33	32.0	32.0	32.1	32.1	34.1	26.8	31.0	31.0	31.0	31.0	32.7	26.3	29.9	29.9	29.9	29.9	31.3	25.8
5692	24	29.4	26.2	32.2	19.8	34.8	12.9	28.2	25.6	30.9	19.3	33.4	12.4	27.0	25.0	29.6	18.7	32.0	12.0
	27	30.1	30.1	32.0	24.9	34.7	18.2	29.1	29.1	30.8	24.3	33.2	17.6	28.0	28.0	29.5	23.8	31.8	17.2
	30	31.5	31.5	32.1	29.9	34.6	23.4	30.5	30.5	30.9	29.4	33.0	22.9	29.4	29.4	29.6	28.9	31.7	22.4
	33	32.9	32.9	32.9	32.9	34.5	28.4	31.8	31.8	31.8	31.8	33.0	27.9	30.6	30.6	30.7	30.7	31.6	27.3
6252	24	29.9	27.5	32.5	20.5	35.2	13.1	28.7	27.0	31.2	20.0	33.6	12.6	27.4	26.4	29.8	19.5	32.2	12.2
	27	30.8	30.8	32.4	26.1	35.0	18.8	29.8	29.8	31.1	25.5	33.5	18.3	28.6	28.6	29.8	25.0	32.1	17.8
	30	32.3	32.3	32.6	31.6	34.9	24.5	31.2	31.2	31.3	31.1	33.3	23.9	30.0	30.0	30.1	30.1	31.9	23.4
	33	33.6	33.6	33.6	33.6	34.9	30.0	32.4	32.4	32.5	32.5	33.3	29.4	31.2	31.2	31.3	31.3	31.9	28.9
6796	24	30.3	28.8	32.8	21.3	35.4	13.4	28.9	28.9	31.4	20.8	33.9	12.8	27.7	27.7	30.1	20.3	32.5	12.3
	27	31.5	31.5	32.7	27.2	35.3	19.5	30.3	30.3	31.4	26.7	33.7	19.0	29.2	29.2	30.1	26.1	32.3	18.5
	30	32.9	32.9	33.0	33.0	35.2	25.5	31.7	31.7	31.8	31.8	33.6	25.0	30.6	30.6	30.6	30.6	32.1	24.4
	33	34.3	34.3	34.3	34.3	35.2	31.5	33.0	33.0	33.0	33.0	33.7	31.0	31.7	31.7	31.8	31.8	32.1	30.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
5148	24	25.2	23.0	27.8	17.4	30.2	11.3	23.7	22.3	26.1	16.7	28.5	10.7
	27	26.0	26.0	27.7	22.0	30.1	16.0	24.7	24.7	26.1	21.3	28.4	15.4
	30	27.4	27.4	27.8	26.6	29.9	20.7	26.1	26.1	26.2	25.9	28.2	20.1
	33	28.7	28.7	28.7	28.7	29.9	25.2	27.3	27.3	27.3	27.3	28.2	24.6
5692	24	25.7	24.4	28.1	18.2	30.5	11.5	24.0	24.0	26.5	17.5	28.8	10.9
	27	26.8	26.8	28.0	23.2	30.4	16.7	25.4	25.4	26.4	22.5	28.6	16.1
	30	28.1	28.1	28.2	28.2	30.2	21.8	26.7	26.7	26.8	26.8	28.5	21.1
	33	29.4	29.4	29.4	29.4	30.1	26.8	27.9	27.9	28.0	28.0	28.5	26.2
6252	24	26.0	26.0	28.4	18.9	30.8	11.7	24.6	24.6	26.7	18.3	29.0	11.1
	27	27.4	27.4	28.3	24.4	30.6	17.3	26.0	26.0	26.7	23.7	28.8	16.7
	30	28.8	28.8	28.8	28.8	30.4	22.8	27.3	27.3	27.3	27.3	28.7	22.2
	33	29.9	29.9	30.0	30.0	30.4	28.3	28.4	28.4	28.5	28.5	28.7	27.7
6796	24	26.5	26.5	28.6	19.7	31.0	11.8	25.1	25.1	26.9	19.1	29.2	11.3
	27	27.9	27.9	28.6	25.5	30.8	18.0	26.5	26.5	26.9	24.9	29.0	17.4
	30	29.3	29.3	29.3	29.3	30.6	23.9	27.8	27.8	27.8	27.8	28.9	23.2
	33	30.4	30.4	30.4	30.4	30.6	29.8	28.9	28.9	28.9	28.9	28.9	28.9

Notes:

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

Table 29. Gross cooling capacities (MBH) TTA1264DD condensing unit with TWE1264DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3750	75	122.4	106.6	133.7	80.4	144.2	53.0	116.8	104.0	127.7	78.0	137.4	50.7	110.7	101.3	121.2	75.5	130.4	48.2
	80	122.9	121.5	133.6	101.0	143.9	73.8	117.8	117.6	127.6	98.6	137.2	71.5	112.4	112.4	121.1	96.1	130.2	69.1
	85	128.0	128.0	133.4	121.5	143.7	94.5	123.2	123.2	127.4	119.2	137.0	92.2	117.9	117.9	121.1	116.6	130.0	89.8
	90	133.5	133.5	134.3	133.3	143.4	115.2	128.5	128.5	128.8	128.8	136.7	112.8	123.1	123.1	123.0	123.0	129.8	110.4
4200	75	124.5	113.7	135.5	84.4	145.9	54.0	118.7	111.2	129.4	82.1	138.9	51.6	112.5	108.5	122.8	79.5	131.6	49.1
	80	126.0	126.0	135.3	107.5	145.6	77.3	120.8	120.8	129.2	105.1	138.6	74.9	115.6	115.6	122.6	102.6	131.3	72.4
	85	131.7	131.7	135.3	130.5	145.4	100.5	126.7	126.7	129.3	127.4	138.4	98.1	121.1	121.1	122.8	121.7	131.1	95.7
	90	137.2	137.2	137.2	137.2	0.0	0.0	131.9	131.9	132.0	132.0	138.1	121.2	126.2	126.2	126.3	126.3	130.9	118.8
4650	75	126.2	120.8	136.9	88.4	147.2	54.9	120.4	118.3	130.7	86.0	140.1	52.6	114.1	113.0	124.0	83.5	132.6	50.1
	80	129.0	129.0	136.8	114.0	147.0	80.8	123.9	123.9	130.5	111.6	139.9	78.4	118.3	118.3	123.8	109.1	132.3	75.9
	85	134.8	134.8	136.9	135.8	146.7	106.4	129.5	129.5	130.8	130.8	139.6	104.1	123.8	123.8	124.4	124.1	132.1	101.6
	90	140.1	140.1	140.3	140.3	146.4	132.0	134.6	134.6	134.7	134.7	139.3	129.7	128.6	128.6	128.7	128.7	131.9	127.2
5100	75	127.7	126.1	138.1	92.4	148.4	55.9	121.8	121.6	131.8	90.0	141.2	53.5	115.6	115.6	125.0	87.5	133.5	51.0
	80	131.6	131.6	137.9	120.4	148.1	84.2	126.3	126.3	131.6	118.1	140.9	81.8	120.6	120.6	124.8	115.5	133.2	79.3
	85	137.3	137.3	138.3	138.3	147.8	112.4	131.9	131.9	132.4	132.4	140.5	110.0	125.9	125.9	126.0	126.0	132.9	107.5
	90	142.8	142.8	142.9	142.9	147.6	140.5	136.9	136.9	137.0	137.0	140.4	137.5	130.6	130.6	130.6	130.6	132.9	130.8

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
3750	75	104.3	98.5	114.3	72.8	122.9	45.7	97.7	95.0	106.6	69.8	114.6	42.9
	80	106.9	106.9	114.1	93.4	122.7	66.5	100.9	100.9	106.5	90.4	114.5	63.7
	85	112.2	112.2	114.2	111.9	122.5	87.2	105.8	105.8	106.8	105.6	114.3	84.5
	90	117.1	117.1	117.2	117.2	122.3	107.9	110.4	110.4	110.5	110.5	114.1	105.1
4200	75	106.0	104.2	115.6	76.8	123.9	46.6	99.2	98.7	107.8	73.8	115.5	43.8
	80	109.9	109.9	115.5	99.9	123.8	69.9	103.5	103.5	107.7	96.9	115.4	67.1
	85	115.1	115.1	115.9	115.6	123.5	93.1	108.4	108.4	108.7	108.7	115.1	90.4
	90	119.9	119.9	120.0	120.0	122.3	113.3	112.8	112.8	112.9	112.9	114.9	111.9
4650	75	107.6	107.6	116.7	80.8	124.8	47.5	100.8	100.8	108.8	77.8	116.2	44.8
	80	112.3	112.3	116.6	106.3	124.5	73.3	105.7	105.7	108.7	103.4	116.1	70.6
	85	117.5	117.5	117.7	117.7	124.3	99.0	110.5	110.5	110.6	110.6	115.8	96.2
	90	122.0	122.0	122.1	122.1	124.1	122.0	114.6	114.6	114.7	114.7	115.7	114.2
5100	75	109.1	109.1	117.6	84.8	125.4	48.4	102.3	102.3	109.6	81.8	116.8	45.7
	80	114.4	114.4	117.5	112.8	125.2	76.7	107.5	107.5	109.5	106.9	116.6	74.0
	85	119.4	119.4	119.4	119.4	124.9	104.9	112.2	112.2	112.2	112.2	116.3	102.1
	90	123.7	123.7	123.7	123.7	124.9	124.4	116.0	116.0	116.0	116.0	116.4	116.4

Notes:

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

Table 30. Gross cooling capacities (kW) TTA1264DD condensing unit with TWE1264DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
6371	24	36.5	31.4	40.1	23.9	43.5	16.0	34.7	30.5	38.2	23.1	41.5	15.3	32.8	29.7	36.1	22.3	39.2	14.5
	27	36.7	36.6	40.1	29.8	43.5	22.0	35.0	35.0	38.2	29.1	41.4	21.3	33.2	33.2	36.1	28.2	39.2	20.5
	30	38.1	38.1	40.1	35.8	43.4	28.0	36.6	36.6	38.2	35.0	41.4	27.3	34.9	34.9	36.1	34.2	39.1	26.5
	33	39.9	39.9	40.2	39.7	43.4	34.0	38.3	38.3	38.5	38.4	41.3	33.3	36.6	36.6	36.6	36.6	39.1	32.5
7136	24	37.2	33.4	40.8	25.1	44.1	16.3	35.3	32.6	38.8	24.3	41.9	15.5	33.3	31.8	36.6	23.4	39.6	14.7
	27	37.6	37.6	40.7	31.7	44.0	23.0	35.9	35.9	38.8	31.0	41.9	22.3	34.2	34.2	36.6	30.1	39.6	21.5
	30	39.3	39.3	40.7	38.4	44.0	29.8	37.7	37.7	38.8	37.7	41.8	29.0	36.0	36.0	36.6	36.1	39.5	28.2
	33	41.1	41.1	41.2	41.2	43.9	36.5	39.4	39.4	39.4	39.4	41.8	35.7	37.6	37.6	37.7	37.7	39.5	34.9
7900	24	37.7	35.5	41.3	26.2	44.6	16.6	35.9	34.7	39.2	25.5	42.3	15.8	33.8	33.4	37.0	24.6	40.0	15.0
	27	38.4	38.4	41.2	33.6	44.5	24.0	36.8	36.8	39.2	32.9	42.3	23.3	35.1	35.1	37.0	32.0	39.9	22.5
	30	40.3	40.3	41.2	40.8	44.4	31.5	38.7	38.7	39.3	39.1	42.2	30.7	36.8	36.8	37.2	37.2	39.9	30.0
	33	42.1	42.1	42.1	42.1	44.4	38.9	40.4	40.4	40.4	40.4	42.1	38.2	38.5	38.5	38.5	38.5	39.8	37.4
8665	24	38.2	37.6	41.7	27.4	45.0	16.9	36.3	36.0	39.6	26.6	42.7	16.1	34.3	34.3	37.4	25.8	40.2	15.3
	27	39.3	39.3	41.6	35.5	44.9	25.1	37.6	37.6	39.6	34.7	42.6	24.3	35.8	35.8	37.3	33.9	40.2	23.5
	30	41.2	41.2	41.7	41.7	44.8	33.2	39.5	39.5	39.8	39.8	42.5	32.5	37.6	37.6	37.7	37.7	40.1	31.7
	33	42.9	42.9	43.0	43.0	44.8	41.4	41.1	41.1	41.2	41.2	42.5	40.6	39.2	39.2	39.2	39.2	40.1	39.3

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
6371	24	30.7	28.8	33.8	21.4	36.8	13.6	28.5	27.8	31.3	20.4	34.0	12.7
	27	31.4	31.4	33.8	27.3	36.7	19.7	29.5	29.5	31.3	26.4	34.0	18.7
	30	33.1	33.1	33.8	33.2	36.7	25.7	31.0	31.0	31.4	31.1	33.9	24.8
	33	34.7	34.7	34.7	34.7	36.6	31.7	32.5	32.5	32.6	32.6	33.9	30.7
7136	24	31.2	30.6	34.3	22.5	37.1	13.9	29.0	28.8	31.7	21.6	34.3	13.0
	27	32.4	32.4	34.3	29.2	37.1	20.7	30.3	30.3	31.7	28.3	34.3	19.7
	30	34.0	34.0	34.4	34.3	37.0	27.4	31.9	31.9	32.0	32.0	34.3	26.5
	33	35.6	35.6	35.6	35.6	37.0	34.1	33.3	33.3	33.4	33.4	34.2	33.1
7900	24	31.7	31.7	34.7	23.7	37.4	14.2	29.5	29.5	32.0	22.7	34.6	13.3
	27	33.1	33.1	34.6	31.1	37.4	21.7	31.0	31.0	32.0	30.2	34.6	20.7
	30	34.8	34.8	35.0	35.0	37.3	29.1	32.6	32.6	32.6	32.6	34.5	28.2
	33	36.4	36.4	36.4	36.4	37.3	36.3	34.0	34.0	34.0	34.0	34.5	34.0
8665	24	32.2	32.2	35.0	24.9	37.7	14.5	29.9	29.9	32.3	23.9	34.8	13.5
	27	33.8	33.8	34.9	33.0	37.6	22.7	31.6	31.6	32.3	31.4	34.8	21.7
	30	35.5	35.5	35.5	35.5	37.5	30.8	33.1	33.1	33.2	33.2	34.7	29.9
	33	37.0	37.0	37.0	37.0	37.5	37.2	34.5	34.5	34.5	34.5	34.8	34.5

Notes:

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

Table 31. Gross cooling capacities (MBH) TTA1564DD condensing unit with TWE1564DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	153.9	131.4	169.9	100.4	185.0	67.8	147.5	128.4	162.7	97.5	177.1	65.0	140.5	125.3	155.0	94.5	168.9	62.1
	80	155.3	155.3	169.6	125.3	184.6	92.9	149.1	149.1	162.4	122.4	176.8	90.1	142.9	142.9	154.8	119.3	168.5	87.2
	85	162.2	162.2	169.6	150.1	184.4	117.9	156.6	156.6	162.6	147.3	176.5	115.1	150.5	150.5	155.1	144.3	168.2	112.2
	90	170.0	170.0	171.2	171.2	184.1	142.8	164.2	164.2	164.8	164.8	176.2	140.0	157.8	157.8	158.1	158.1	167.9	137.1
5000	75	156.8	139.6	172.3	105.0	187.4	69.0	150.1	136.6	165.0	102.1	179.1	66.1	143.0	133.4	157.1	99.0	170.6	63.2
	80	159.1	159.1	172.1	132.6	187.0	96.9	153.4	153.4	164.7	129.7	178.7	94.0	147.2	147.2	156.9	126.6	170.3	91.1
	85	167.3	167.3	172.4	160.4	186.7	124.7	161.3	161.3	165.2	157.5	178.4	121.8	154.9	154.9	157.6	153.5	169.9	118.8
	90	175.1	175.1	175.4	175.4	186.5	152.4	169.0	169.0	169.2	169.2	178.2	149.5	162.3	162.3	162.5	162.5	169.8	146.6
5500	75	159.2	147.7	174.4	109.6	189.4	70.1	152.4	144.7	166.9	106.7	180.8	67.2	145.2	140.6	158.9	103.6	172.0	64.2
	80	163.3	163.3	174.1	139.9	189.0	100.8	157.3	157.3	166.6	137.0	180.4	97.9	150.9	150.9	158.7	134.0	171.7	94.9
	85	171.6	171.6	174.8	169.6	188.8	131.4	165.4	165.3	167.6	166.6	180.1	128.5	158.7	158.7	159.9	159.9	171.3	125.5
	90	179.4	179.4	179.6	179.6	188.8	162.0	172.9	172.9	173.1	173.1	180.1	159.0	165.9	165.9	166.1	166.1	171.3	156.0
6000	75	161.4	155.2	176.0	114.1	191.2	71.3	154.5	151.6	168.4	111.2	182.3	68.3	147.2	147.2	160.3	108.1	173.2	65.3
	80	166.9	166.9	175.8	147.2	190.8	104.8	160.7	160.7	168.3	144.3	181.9	101.8	154.0	154.0	160.2	141.3	172.8	98.8
	85	175.2	175.2	177.0	177.0	190.6	138.2	168.8	168.8	169.8	169.8	181.5	135.1	161.8	161.8	162.2	162.2	172.4	132.1
	90	183.0	183.0	183.2	183.2	190.9	171.6	176.2	176.2	176.4	176.4	181.8	168.6	168.9	168.9	169.1	169.1	172.8	165.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	133.1	122.0	146.7	91.2	159.9	59.0	125.1	118.1	137.7	87.7	149.9	55.6
	80	136.5	136.5	146.5	116.0	159.5	84.1	129.5	129.5	137.5	112.5	149.6	80.7
	85	143.8	143.8	147.0	140.6	159.2	109.1	136.5	136.5	138.2	136.6	149.2	105.7
	90	150.9	150.9	151.1	151.1	159.0	134.0	143.1	143.1	143.3	143.3	149.1	130.6
5000	75	135.4	130.1	148.6	95.7	161.4	60.1	127.3	125.6	139.4	92.2	151.3	56.7
	80	140.5	140.5	148.4	123.4	161.1	88.0	133.1	133.1	139.2	119.9	150.9	84.5
	85	147.9	147.9	149.4	149.4	160.7	115.7	140.1	140.1	140.6	140.6	150.5	112.3
	90	154.9	154.9	155.1	155.1	160.6	143.5	146.7	146.7	146.8	146.8	150.6	140.1
5500	75	137.5	137.1	150.2	100.3	162.7	61.1	129.3	129.3	140.7	96.7	152.4	57.7
	80	143.9	143.9	150.1	130.7	162.3	91.8	136.2	136.2	140.7	127.2	152.0	88.4
	85	151.3	151.3	151.7	151.7	161.9	122.3	143.2	143.2	143.3	143.3	151.6	118.9
	90	158.2	158.2	158.3	158.3	162.0	152.9	149.6	149.6	149.7	149.7	151.9	148.1
6000	75	139.5	139.5	151.5	104.8	163.7	62.2	131.4	131.4	141.9	101.2	153.3	58.8
	80	146.8	146.8	151.5	138.0	163.3	95.6	138.8	138.8	142.0	133.2	152.9	92.2
	85	154.2	154.2	154.3	154.3	162.9	128.9	145.7	145.7	145.8	145.8	152.5	125.6
	90	160.9	160.9	161.0	161.0	163.2	160.8	151.9	151.9	152.0	152.0	153.1	153.1

Notes:

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

Table 32. Gross cooling capacities (kW) TTA1564DD condensing unit with TWE1564DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	45.1	38.5	49.8	29.4	54.2	19.9	43.2	37.6	47.7	28.6	51.9	19.1	41.2	36.7	45.4	27.7	49.5	18.2
	27	45.5	45.5	49.7	36.7	54.1	27.2	43.7	43.7	47.6	35.9	51.8	26.4	41.9	41.9	45.4	35.0	49.4	25.6
	30	47.5	47.5	49.7	44.0	54.0	34.6	45.9	45.9	47.7	43.2	51.7	33.7	44.1	44.1	45.5	42.3	49.3	32.9
	33	49.8	49.8	50.2	50.2	53.9	41.9	48.1	48.1	48.3	48.3	51.6	41.0	46.3	46.3	46.3	46.3	49.2	40.2
8495	24	46.0	40.9	50.5	30.8	54.9	20.2	44.0	40.0	48.4	29.9	52.5	19.4	41.9	39.1	46.1	29.0	50.0	18.5
	27	46.6	46.6	50.4	38.9	54.8	28.4	44.9	44.9	48.3	38.0	52.4	27.5	43.1	43.1	46.0	37.1	49.9	26.7
	30	49.0	49.0	50.5	47.0	54.7	36.5	47.3	47.3	48.4	46.2	52.3	35.7	45.4	45.4	46.2	45.0	49.8	34.8
	33	51.3	51.3	51.4	51.4	54.7	44.7	49.5	49.5	49.6	49.6	52.2	43.8	47.6	47.6	47.6	47.6	49.8	43.0
9345	24	46.7	43.3	51.1	32.1	55.5	20.6	44.7	42.4	48.9	31.3	53.0	19.7	42.6	41.2	46.6	30.4	50.4	18.8
	27	47.9	47.9	51.0	41.0	55.4	29.5	46.1	46.1	48.8	40.2	52.9	28.7	44.2	44.2	46.5	39.3	50.3	27.8
	30	50.3	50.3	51.2	49.7	55.3	38.5	48.5	48.5	49.1	48.8	52.8	37.6	46.5	46.5	46.9	46.9	50.2	36.8
	33	52.6	52.6	52.6	52.6	55.3	47.5	50.7	50.7	50.7	50.7	52.8	46.6	48.6	48.6	48.7	48.7	50.2	45.7
10194	24	47.3	45.5	51.6	33.4	56.0	20.9	45.3	44.4	49.4	32.6	53.4	20.0	43.1	43.1	47.0	31.7	50.8	19.1
	27	48.9	48.9	51.5	43.2	55.9	30.7	47.1	47.1	49.3	42.3	53.3	29.8	45.1	45.1	47.0	41.4	50.6	28.9
	30	51.3	51.3	51.9	51.9	55.9	40.5	49.5	49.5	49.8	49.8	53.2	39.6	47.4	47.4	47.5	47.5	50.5	38.7
	33	53.6	53.6	53.7	53.7	55.9	50.3	51.6	51.6	51.7	51.7	53.3	49.4	49.5	49.5	49.6	49.6	50.6	48.5

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	39.0	35.8	43.0	26.7	46.9	17.3	36.7	34.6	40.4	25.7	43.9	16.3
	27	40.0	40.0	42.9	34.0	46.7	24.6	38.0	38.0	40.3	33.0	43.8	23.6
	30	42.1	42.1	43.1	41.2	46.7	32.0	40.0	40.0	40.5	40.0	43.7	31.0
	33	44.2	44.2	44.3	44.3	46.6	39.3	41.9	41.9	42.0	42.0	43.7	38.3
8495	24	39.7	38.1	43.6	28.1	47.3	17.6	37.3	36.8	40.8	27.0	44.3	16.6
	27	41.2	41.2	43.5	36.2	47.2	25.8	39.0	39.0	40.8	35.1	44.2	24.8
	30	43.3	43.3	43.8	43.8	47.1	33.9	41.1	41.1	41.2	41.2	44.1	32.9
	33	45.4	45.4	45.5	45.5	47.1	42.0	43.0	43.0	43.0	43.0	44.1	41.1
9345	24	40.3	40.2	44.0	29.4	47.7	17.9	37.9	37.9	41.2	28.3	44.7	16.9
	27	42.2	42.2	44.0	38.3	47.6	26.9	39.9	39.9	41.2	37.3	44.5	25.9
	30	44.3	44.3	44.5	44.5	47.4	35.9	42.0	42.0	42.0	42.0	44.4	34.9
	33	46.4	46.4	46.4	46.4	47.5	44.8	43.8	43.8	43.9	43.9	44.5	43.4
10194	24	40.9	40.9	44.4	30.7	48.0	18.2	38.5	38.5	41.6	29.7	44.9	17.2
	27	43.0	43.0	44.4	40.5	47.9	28.0	40.7	40.7	41.6	39.0	44.8	27.0
	30	45.2	45.2	45.2	45.2	47.7	37.8	42.7	42.7	42.7	42.7	44.7	36.8
	33	47.2	47.2	47.2	47.2	47.8	47.1	44.5	44.5	44.5	44.5	44.9	44.9

Notes:

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

Table 33. Gross cooling capacities (MBH) TTA1564DD condensing unit with TWE2014DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	154.5	143.2	170.7	106.8	185.9	68.7	147.9	140.2	163.4	103.9	177.6	65.9	140.8	137.2	155.5	100.9	169.2	63.0
	80	156.9	156.9	170.4	136.2	185.5	98.4	151.0	151.0	163.0	133.4	177.2	95.6	145.0	145.0	155.2	130.3	168.8	92.7
	85	165.0	165.0	170.3	165.6	185.1	128.0	159.1	159.1	163.1	162.8	176.9	125.2	152.8	152.8	155.5	155.5	168.4	122.3
	90	172.9	172.9	173.1	173.1	184.7	157.5	166.8	166.8	167.0	167.0	176.5	154.7	160.2	160.2	160.3	160.3	168.0	151.8
5000	75	155.6	147.2	171.7	109.1	186.8	69.3	148.9	144.2	164.3	106.2	178.4	66.4	141.8	141.2	156.4	103.2	169.8	63.5
	80	158.7	158.7	171.3	139.9	186.4	100.4	152.9	152.9	163.9	137.0	178.0	97.5	146.7	146.7	156.0	134.0	169.4	94.7
	85	167.0	167.0	171.4	170.7	186.0	131.4	161.0	161.0	164.2	164.2	177.6	128.5	154.5	154.5	156.5	156.5	169.1	125.7
	90	174.9	174.9	175.1	175.1	185.7	162.3	168.7	168.7	168.8	168.8	177.3	159.4	161.9	161.9	162.1	162.1	168.7	156.5
5500	75	156.6	151.2	172.6	111.4	187.6	69.8	149.9	148.3	165.1	108.5	179.2	67.0	142.7	142.7	157.1	105.5	170.4	64.1
	80	160.5	160.5	172.2	143.5	187.2	102.4	154.6	154.6	164.8	140.7	178.7	99.5	148.3	148.3	156.8	137.6	170.0	96.6
	85	168.8	168.8	172.4	172.4	186.9	134.7	162.7	162.7	165.2	165.2	178.4	131.9	156.1	156.1	157.5	157.5	169.7	129.0
	90	176.8	176.8	176.9	176.9	186.5	167.0	170.4	170.4	170.5	170.5	178.0	164.1	163.5	163.5	163.6	163.6	169.3	161.2
6000	75	157.6	155.2	173.4	113.6	188.4	70.4	150.8	150.8	165.9	110.7	179.9	67.5	143.7	143.7	157.8	107.7	171.0	64.6
	80	162.2	162.2	173.1	147.2	188.0	104.3	156.2	156.2	165.5	144.3	179.4	101.4	149.8	149.8	157.5	141.3	170.6	98.5
	85	170.6	170.6	173.4	173.4	187.6	138.1	164.4	164.4	166.1	166.1	179.1	135.2	157.6	157.6	158.5	158.5	170.2	132.3
	90	178.5	178.5	178.6	178.6	187.3	171.7	172.0	172.0	172.1	172.1	176.5	165.3	164.9	164.9	165.1	165.1	169.9	165.9

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	133.3	133.1	147.1	97.7	159.9	59.9	125.3	125.3	137.8	94.2	149.8	56.5
	80	138.4	138.4	146.7	127.1	159.5	89.6	131.2	131.2	137.5	123.6	149.4	86.3
	85	145.9	145.9	147.3	147.3	159.1	119.2	138.2	138.2	138.6	138.6	149.0	115.9
	90	152.9	152.9	153.0	153.0	158.8	148.7	144.7	144.7	144.8	144.8	148.8	145.4
5000	75	134.2	134.2	147.8	99.9	160.5	60.4	126.2	126.2	138.5	96.5	150.3	57.1
	80	140.0	140.0	147.5	130.7	160.1	91.6	132.6	132.6	138.2	127.3	149.9	88.2
	85	147.4	147.4	148.3	148.3	159.7	122.6	139.6	139.6	139.8	139.8	149.5	119.2
	90	154.4	154.4	154.6	154.6	158.0	149.0	146.1	146.1	146.2	146.2	149.4	149.3
5500	75	135.1	135.1	148.5	102.2	161.1	61.0	127.1	127.1	139.1	98.7	150.8	57.6
	80	141.5	141.5	148.1	134.4	160.7	93.5	133.9	133.9	138.7	130.9	150.3	90.1
	85	148.9	148.9	149.4	149.4	160.3	125.9	140.9	140.9	140.9	140.9	149.9	122.5
	90	155.8	155.8	156.0	156.0	160.0	158.2	147.3	147.3	147.4	147.4	149.9	149.9
6000	75	136.0	136.0	149.1	104.5	161.5	61.5	128.0	128.0	139.6	100.9	151.2	58.1
	80	142.8	142.8	148.8	138.0	161.1	95.4	135.1	135.1	139.3	134.5	150.8	92.0
	85	150.3	150.3	150.5	150.5	160.7	129.2	142.1	142.1	142.2	142.2	150.4	125.8
	90	157.1	157.1	157.3	157.3	159.7	155.1	148.4	148.4	148.5	148.5	150.4	150.4

Notes:

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

Table 34. Gross cooling capacities (kW) TTA1564DD condensing unit with TWE2014DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	45.3	42.0	50.0	31.3	54.5	20.1	43.3	41.1	47.9	30.5	52.1	19.3	41.3	40.2	45.6	29.6	49.6	18.5
	27	46.0	46.0	49.9	39.9	54.4	28.8	44.3	44.3	47.8	39.1	51.9	28.0	42.5	42.5	45.5	38.2	49.5	27.2
	30	48.3	48.3	49.9	48.5	54.2	37.5	46.6	46.6	47.8	47.7	51.8	36.7	44.8	44.8	45.6	45.6	49.4	35.9
	33	50.7	50.7	50.7	50.7	54.1	46.2	48.9	48.9	48.9	48.9	51.7	45.3	46.9	46.9	47.0	47.0	49.3	44.5
8495	24	45.6	43.1	50.3	32.0	54.7	20.3	43.6	42.3	48.1	31.1	52.3	19.5	41.6	41.4	45.8	30.2	49.8	18.6
	27	46.5	46.5	50.2	41.0	54.6	29.4	44.8	44.8	48.0	40.2	52.2	28.6	43.0	43.0	45.7	39.3	49.7	27.7
	30	48.9	48.9	50.2	50.0	54.5	38.5	47.2	47.2	48.1	48.1	52.1	37.7	45.3	45.3	45.9	45.9	49.5	36.8
	33	51.3	51.3	51.3	51.3	54.4	47.6	49.4	49.4	49.5	49.5	52.0	46.7	47.4	47.4	47.5	47.5	49.4	45.9
9345	24	45.9	44.3	50.6	32.6	55.0	20.5	43.9	43.5	48.4	31.8	52.5	19.6	41.8	41.8	46.0	30.9	49.9	18.8
	27	47.0	47.0	50.5	42.1	54.9	30.0	45.3	45.3	48.3	41.2	52.4	29.2	43.5	43.5	46.0	40.3	49.8	28.3
	30	49.5	49.5	50.5	50.5	54.8	39.5	47.7	47.7	48.4	48.4	52.3	38.6	45.8	45.8	46.2	46.2	49.7	37.8
	33	51.8	51.8	51.9	51.9	54.7	48.9	49.9	49.9	50.0	50.0	52.2	48.1	47.9	47.9	48.0	48.0	49.6	47.3
10194	24	46.2	45.5	50.8	33.3	55.2	20.6	44.2	44.2	48.6	32.5	52.7	19.8	42.1	42.1	46.2	31.6	50.1	18.9
	27	47.5	47.5	50.7	43.1	55.1	30.6	45.8	45.8	48.5	42.3	52.6	29.7	43.9	43.9	46.2	41.4	50.0	28.9
	30	50.0	50.0	50.8	50.8	55.0	40.5	48.2	48.2	48.7	48.7	52.5	39.6	46.2	46.2	46.5	46.5	49.9	38.8
	33	52.3	52.3	52.4	52.4	54.9	50.3	50.4	50.4	50.4	50.4	51.7	48.4	48.3	48.3	48.4	48.4	49.8	48.6

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	39.1	39.0	43.1	28.6	46.9	17.6	36.7	36.7	40.4	27.6	43.9	16.6
	27	40.6	40.6	43.0	37.2	46.8	26.3	38.4	38.4	40.3	36.2	43.8	25.3
	30	42.7	42.7	43.2	43.2	46.6	34.9	40.5	40.5	40.6	40.6	43.7	34.0
	33	44.8	44.8	44.8	44.8	46.5	43.6	42.4	42.4	42.5	42.5	43.6	42.6
8495	24	39.3	39.3	43.3	29.3	47.0	17.7	37.0	37.0	40.6	28.3	44.0	16.7
	27	41.0	41.0	43.2	38.3	46.9	26.8	38.9	38.9	40.5	37.3	43.9	25.8
	30	43.2	43.2	43.5	43.5	46.8	35.9	40.9	40.9	41.0	41.0	43.8	34.9
	33	45.3	45.3	45.3	45.3	46.3	43.7	42.8	42.8	42.8	42.8	43.8	43.7
9345	24	39.6	39.6	43.5	30.0	47.2	17.9	37.2	37.2	40.8	28.9	44.2	16.9
	27	41.5	41.5	43.4	39.4	47.1	27.4	39.2	39.2	40.7	38.4	44.1	26.4
	30	43.6	43.6	43.8	43.8	47.0	36.9	41.3	41.3	41.3	41.3	43.9	35.9
	33	45.7	45.7	45.7	45.7	46.9	46.4	43.2	43.2	43.2	43.2	43.9	43.9
10194	24	39.9	39.9	43.7	30.6	47.3	18.0	37.5	37.5	40.9	29.6	44.3	17.0
	27	41.9	41.9	43.6	40.4	47.2	28.0	39.6	39.6	40.8	39.4	44.2	27.0
	30	44.0	44.0	44.1	44.1	47.1	37.9	41.7	41.7	41.7	41.7	44.1	36.9
	33	46.1	46.1	46.1	46.1	46.8	45.5	43.5	43.5	43.5	43.5	44.1	44.1

Notes:

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

Table 35. Gross cooling capacities (MBH) one compressor - TTA1564DC condensing unit with TWE1564DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
5350	75	91.2	91.2	97.5	71.0	107.4	41.7	87.2	87.2	92.6	69.2	101.8	39.8	83.0	83.0	87.4	67.3	96.4	38.1
	80	97.0	97.0	97.1	97.1	106.9	65.3	92.8	92.8	92.9	92.9	101.3	63.4	88.4	88.4	88.5	88.5	95.9	61.7
	85	102.5	102.5	102.6	102.6	106.6	88.9	98.2	98.2	98.2	98.2	101.1	87.1	93.6	93.6	93.7	93.7	95.8	85.4
	90	108.2	108.2	108.3	108.3	108.5	108.5	103.3	103.3	103.4	103.4	103.6	103.6	98.4	98.4	98.5	98.5	98.6	98.6
5600	75	93.4	93.4	98.4	74.9	108.4	42.7	89.2	89.2	93.4	73.1	102.5	40.8	84.8	84.8	88.3	71.2	97.0	39.1
	80	99.2	99.2	99.3	99.3	107.8	68.7	94.9	94.9	95.0	95.0	102.0	66.8	90.3	90.3	90.4	90.4	96.5	65.1
	85	104.7	104.7	104.8	104.8	107.7	94.7	100.1	100.1	100.2	100.2	102.1	92.8	95.5	95.5	95.6	95.6	96.6	91.1
	90	110.8	110.8	111.0	111.0	111.1	111.1	105.7	105.7	105.8	105.8	105.9	105.9	100.5	100.5	100.5	100.5	100.6	100.6
5850	75	95.2	95.2	99.2	78.7	109.1	43.7	90.9	90.9	94.2	76.9	103.2	41.8	86.4	86.4	88.9	75.1	97.5	40.0
	80	101.0	101.0	101.1	101.1	108.6	72.0	96.6	96.6	96.6	96.6	102.7	70.2	91.9	91.9	92.0	92.0	97.0	68.4
	85	106.8	106.8	106.9	106.9	108.7	100.4	101.9	101.9	101.9	101.9	102.0	102.0	97.0	97.0	97.0	97.0	97.1	97.1
	90	113.1	113.1	113.2	113.2	113.3	113.3	107.7	107.7	107.8	107.8	107.9	107.9	102.2	102.2	102.3	102.3	102.4	102.4
6100	75	96.7	96.7	99.8	82.5	109.8	44.7	92.3	92.3	94.8	80.7	103.8	42.8	87.7	87.7	89.6	78.8	98.0	40.9
	80	102.5	102.5	102.6	102.6	109.2	75.3	98.0	98.0	98.1	98.1	103.2	73.4	93.3	93.3	93.3	93.3	97.4	71.6
	85	108.6	108.6	108.7	108.7	108.8	108.8	103.5	103.5	103.5	103.5	103.6	103.6	98.3	98.3	98.3	98.3	98.4	98.4
	90	115.0	115.0	115.2	115.2	115.3	115.3	109.5	109.5	109.6	109.6	109.7	109.7	103.8	103.8	103.8	103.8	103.9	103.9

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
5350	75	78.5	78.5	82.1	65.3	90.7	36.3	73.7	73.7	76.4	63.3	84.6	34.3
	80	83.8	83.8	83.8	83.8	90.2	59.9	78.7	78.7	78.8	78.8	84.1	57.9
	85	88.8	88.8	88.9	88.9	90.2	83.5	83.5	83.5	83.6	83.6	83.7	83.7
	90	93.2	93.2	93.3	93.3	93.4	93.4	87.7	87.7	87.8	87.8	87.9	87.9
5600	75	80.2	80.2	82.8	69.3	91.3	37.2	75.2	75.2	77.1	67.2	85.1	35.3
	80	85.5	85.5	85.6	85.6	90.8	63.2	80.3	80.3	80.4	80.4	84.6	61.3
	85	90.5	90.5	90.5	90.5	90.6	90.6	85.1	85.1	85.1	85.1	85.2	85.2
	90	94.9	94.9	95.0	95.0	95.1	95.1	89.1	89.1	89.2	89.2	89.2	89.2
5850	75	81.6	81.6	83.5	73.1	91.8	38.2	76.5	76.5	77.7	71.0	85.5	36.2
	80	87.0	87.0	87.0	87.0	91.2	66.6	81.6	81.6	81.7	81.7	85.1	64.6
	85	91.8	91.8	91.9	91.9	92.0	92.0	86.3	86.3	86.4	86.4	86.4	86.4
	90	96.5	96.5	96.5	96.5	96.6	96.6	90.4	90.4	90.4	90.4	90.5	90.5
6100	75	82.8	82.8	84.1	76.8	92.1	39.1	77.6	77.6	77.6	77.6	85.8	37.2
	80	88.2	88.2	88.2	88.2	91.6	69.8	82.7	82.7	82.8	82.8	85.4	67.9
	85	93.0	93.0	93.0	93.0	93.0	93.0	87.3	87.3	87.4	87.4	87.4	87.4
	90	97.8	97.8	97.8	97.8	97.9	97.9	91.5	91.5	91.5	91.5	91.6	91.6

Notes:

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

Table 36. Gross cooling capacities (kW) one compressor - TTA1564DC condensing unit with TWE1564DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
9090	24	26.7	26.7	28.6	20.8	31.5	12.2	25.6	25.6	27.1	20.3	29.8	11.7	24.3	24.3	25.6	19.7	28.3	11.2
	27	28.4	28.4	28.5	28.5	31.3	19.1	27.2	27.2	27.2	27.2	29.7	18.6	25.9	25.9	25.9	25.9	28.1	18.1
	30	30.0	30.0	30.1	30.1	31.3	26.0	28.8	28.8	28.8	28.8	29.6	25.5	27.4	27.4	27.5	27.5	28.1	25.0
	33	31.7	31.7	31.7	31.7	31.8	31.8	30.3	30.3	30.3	30.3	30.4	30.4	28.8	28.8	28.9	28.9	28.9	28.9
9514	24	27.4	27.4	28.8	22.0	31.8	12.5	26.1	26.1	27.4	21.4	30.1	12.0	24.9	24.9	25.9	20.9	28.4	11.4
	27	29.1	29.1	29.1	29.1	31.6	20.1	27.8	27.8	27.8	27.8	29.9	19.6	26.5	26.5	26.5	26.5	28.3	19.1
	30	30.7	30.7	30.7	30.7	31.6	27.8	29.3	29.3	29.4	29.4	29.9	27.2	28.0	28.0	28.0	28.0	28.3	26.7
	33	32.5	32.5	32.5	32.5	32.6	32.6	31.0	31.0	31.0	31.0	31.0	31.0	29.4	29.4	29.5	29.5	29.5	29.5
9939	24	27.9	27.9	29.1	23.1	32.0	12.8	26.6	26.6	27.6	22.5	30.2	12.3	25.3	25.3	26.1	22.0	28.6	11.7
	27	29.6	29.6	29.6	29.6	31.8	21.1	28.3	28.3	28.3	28.3	30.1	20.6	26.9	26.9	27.0	27.0	28.4	20.0
	30	31.3	31.3	31.3	31.3	31.9	29.4	29.9	29.9	29.9	29.9	29.9	29.9	28.4	28.4	28.4	28.4	28.5	28.5
	33	33.1	33.1	33.2	33.2	33.2	33.2	31.6	31.6	31.6	31.6	31.6	31.6	30.0	30.0	30.0	30.0	30.0	30.0
10364	24	28.3	28.3	29.3	24.2	32.2	13.1	27.1	27.1	27.8	23.6	30.4	12.5	25.7	25.7	26.2	23.1	28.7	12.0
	27	30.0	30.0	30.1	30.1	32.0	22.1	28.7	28.7	28.7	28.7	30.2	21.5	27.3	27.3	27.4	27.4	28.6	21.0
	30	31.8	31.8	31.9	31.9	31.9	31.9	30.3	30.3	30.3	30.3	30.4	30.4	28.8	28.8	28.8	28.8	28.8	28.8
	33	33.7	33.7	33.8	33.8	33.8	33.8	32.1	32.1	32.1	32.1	32.1	32.1	30.4	30.4	30.4	30.4	30.5	30.5

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
9090	24	23.0	23.0	24.1	19.1	26.6	10.6	21.6	21.6	22.4	18.5	24.8	10.0
	27	24.5	24.5	24.6	24.6	26.4	17.5	23.1	23.1	23.1	23.1	24.7	17.0
	30	26.0	26.0	26.0	26.0	26.4	24.5	24.5	24.5	24.5	24.5	24.5	24.5
	33	27.3	27.3	27.3	27.3	27.4	27.4	25.7	25.7	25.7	25.7	25.8	25.8
9514	24	23.5	23.5	24.3	20.3	26.8	10.9	22.1	22.1	22.6	19.7	24.9	10.3
	27	25.1	25.1	25.1	25.1	26.6	18.5	23.5	23.5	23.6	23.6	24.8	18.0
	30	26.5	26.5	26.5	26.5	26.6	26.6	24.9	24.9	25.0	25.0	25.0	25.0
	33	27.8	27.8	27.8	27.8	27.9	27.9	26.1	26.1	26.1	26.1	26.1	26.1
9939	24	23.9	23.9	24.5	21.4	26.9	11.2	22.4	22.4	22.8	20.8	25.1	10.6
	27	25.5	25.5	25.5	25.5	26.7	19.5	23.9	23.9	23.9	23.9	24.9	18.9
	30	26.9	26.9	26.9	26.9	27.0	27.0	25.3	25.3	25.3	25.3	25.3	25.3
	33	28.3	28.3	28.3	28.3	28.3	28.3	26.5	26.5	26.5	26.5	26.5	26.5
10364	24	24.3	24.3	24.6	22.5	27.0	11.5	22.7	22.7	22.8	22.8	25.2	10.9
	27	25.8	25.8	25.9	25.9	26.9	20.5	24.3	24.3	24.3	24.3	25.0	19.9
	30	27.2	27.2	27.3	27.3	27.3	27.3	25.6	25.6	25.6	25.6	25.6	25.6
	33	28.7	28.7	28.7	28.7	28.7	28.7	26.8	26.8	26.8	26.8	26.8	26.8

Notes:

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

Table 37. Gross cooling capacities (MBH) TTA1564DC condensing unit with TWE1564DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	150.9	127.0	168.2	98.4	185.2	68.2	143.8	123.7	160.2	95.1	176.7	65.1	136.2	120.3	151.8	91.7	167.5	61.8
	80	151.7	151.7	167.7	121.7	184.7	91.8	145.8	145.8	159.8	118.5	176.2	88.7	139.5	139.5	151.3	115.1	167.0	85.5
	85	160.2	160.2	167.7	145.2	184.3	115.3	154.1	154.1	159.9	142.0	175.7	112.3	147.5	147.5	151.7	138.7	166.6	109.0
	90	168.6	168.6	169.5	169.3	183.8	138.8	162.3	162.3	162.5	162.5	175.3	135.7	155.5	155.5	155.7	155.7	166.3	132.5
5000	75	153.9	134.3	170.9	102.5	187.6	69.3	146.5	131.0	162.7	99.2	178.9	66.2	138.8	127.5	154.0	95.8	169.5	62.9
	80	156.9	156.9	170.4	128.3	187.1	95.3	150.7	150.7	162.2	125.0	178.4	92.2	144.0	144.0	153.6	121.6	169.0	88.9
	85	165.7	165.7	170.8	154.2	186.6	121.2	159.2	159.2	162.9	151.0	177.9	118.1	152.3	152.3	154.5	147.7	168.5	114.8
	90	174.3	174.3	174.5	174.5	186.3	147.1	167.6	167.6	167.8	167.8	177.7	144.0	160.4	160.4	160.6	160.6	168.4	140.8
5500	75	156.5	141.3	173.1	106.5	189.5	70.3	149.0	138.0	164.8	103.2	180.7	67.2	141.2	134.5	155.9	99.7	171.1	63.9
	80	161.4	161.4	172.6	134.6	189.0	98.6	154.9	154.9	164.4	131.3	180.2	95.5	147.9	147.9	155.6	127.9	170.6	92.2
	85	170.3	170.3	173.6	163.1	188.5	126.9	163.6	163.6	165.6	159.9	179.7	123.8	156.3	156.3	157.2	156.6	170.1	120.5
	90	179.0	179.0	179.3	179.3	188.4	155.2	172.1	172.1	172.3	172.3	179.7	152.1	164.5	164.5	164.7	164.7	170.3	148.8
6000	75	158.8	148.2	174.9	110.4	191.1	71.2	149.5	149.5	166.5	107.1	182.1	68.1	142.6	142.6	157.4	103.6	172.4	64.9
	80	165.3	165.3	174.6	140.8	190.6	101.9	158.5	158.5	166.2	137.5	181.6	98.8	151.3	151.3	157.3	134.1	171.9	95.5
	85	174.4	174.4	176.1	171.7	190.1	132.4	167.4	167.4	168.2	168.2	181.1	129.3	159.8	159.8	160.0	160.0	171.4	126.0
	90	183.1	183.1	183.3	183.3	190.2	163.0	175.9	175.9	176.1	176.1	181.4	160.0	168.0	168.0	168.2	168.2	171.9	156.7

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
4500	75	128.3	116.7	142.9	88.1	157.8	58.4	120.0	113.0	133.4	84.4	147.1	54.7
	80	132.8	132.8	142.4	111.5	157.3	82.0	125.5	125.5	133.0	107.8	146.7	78.3
	85	140.5	140.5	143.1	135.2	156.8	105.5	132.9	132.9	134.0	131.6	146.2	101.9
	90	148.1	148.1	148.4	148.4	156.6	129.1	140.1	140.1	140.3	140.3	146.1	125.4
5000	75	130.8	124.0	144.9	92.2	159.5	59.4	121.7	121.7	135.1	88.4	148.6	55.7
	80	136.9	136.9	144.6	118.0	159.0	85.5	129.3	129.3	134.9	114.3	148.2	81.7
	85	144.9	144.9	145.9	144.3	158.6	111.4	136.8	136.8	137.0	137.0	147.7	107.7
	90	152.6	152.6	152.8	152.8	158.6	137.4	144.1	144.1	144.2	144.2	147.9	133.7
5500	75	132.3	132.3	146.5	96.1	160.9	60.4	124.7	124.7	136.5	92.3	149.9	56.7
	80	140.5	140.5	146.4	124.3	160.5	88.8	132.5	132.5	136.5	120.6	149.4	85.1
	85	148.6	148.6	148.7	148.7	160.0	117.0	140.1	140.1	140.3	140.3	149.0	113.3
	90	156.4	156.4	156.5	156.5	160.3	145.4	147.3	147.3	147.5	147.5	149.6	141.8
6000	75	135.2	135.2	147.9	99.9	162.1	61.4	127.3	127.3	137.7	96.1	150.9	57.7
	80	143.6	143.6	148.0	130.5	161.6	92.0	135.2	135.2	138.0	126.8	150.4	88.3
	85	151.8	151.8	151.9	151.9	161.2	122.6	142.9	142.9	143.1	143.1	150.0	118.9
	90	159.5	159.5	159.7	159.7	161.9	153.3	150.1	150.1	150.2	150.2	151.1	149.7

Notes:

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

Table 38. Gross cooling capacities (kW) TTA1564DC condensing unit with TWE1564DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	44.2	37.2	49.3	28.8	54.3	20.0	42.1	36.3	47.0	27.9	51.8	19.1	39.9	35.3	44.5	26.9	49.1	18.1
	27	44.5	44.5	49.1	35.7	54.1	26.9	42.7	42.7	46.8	34.7	51.6	26.0	40.9	40.9	44.3	33.7	49.0	25.0
	30	47.0	47.0	49.1	42.6	54.0	33.8	45.2	45.2	46.9	41.6	51.5	32.9	43.2	43.2	44.5	40.6	48.8	31.9
	33	49.4	49.4	49.7	49.6	53.9	40.7	47.6	47.6	47.6	47.6	51.4	39.8	45.6	45.6	45.6	45.6	48.7	38.8
8495	24	45.1	39.4	50.1	30.0	55.0	20.3	43.0	38.4	47.7	29.1	52.4	19.4	40.7	37.4	45.1	28.1	49.7	18.4
	27	46.0	46.0	49.9	37.6	54.8	27.9	44.2	44.2	47.5	36.6	52.3	27.0	42.2	42.2	45.0	35.6	49.5	26.1
	30	48.6	48.6	50.1	45.2	54.7	35.5	46.7	46.7	47.7	44.3	52.1	34.6	44.6	44.6	45.3	43.3	49.4	33.6
	33	51.1	51.1	51.2	51.2	54.6	43.1	49.1	49.1	49.2	49.2	52.1	42.2	47.0	47.0	47.1	47.1	49.4	41.3
9345	24	45.9	41.4	50.7	31.2	55.5	20.6	43.7	40.4	48.3	30.3	52.9	19.7	41.4	39.4	45.7	29.2	50.1	18.7
	27	47.3	47.3	50.6	39.4	55.4	28.9	45.4	45.4	48.2	38.5	52.8	28.0	43.3	43.3	45.6	37.5	50.0	27.0
	30	49.9	49.9	50.9	47.8	55.3	37.2	47.9	47.9	48.5	46.9	52.7	36.3	45.8	45.8	46.1	45.9	49.9	35.3
	33	52.5	52.5	52.5	52.5	55.2	45.5	50.4	50.4	50.5	50.5	52.7	44.6	48.2	48.2	48.3	48.3	49.9	43.6
10194	24	46.5	43.4	51.3	32.3	56.0	20.9	43.8	43.8	48.8	31.4	53.4	20.0	41.8	41.8	46.1	30.4	50.5	19.0
	27	48.4	48.4	51.2	41.3	55.9	29.9	46.5	46.5	48.7	40.3	53.2	29.0	44.3	44.3	46.1	39.3	50.4	28.0
	30	51.1	51.1	51.6	50.3	55.7	38.8	49.1	49.1	49.3	49.3	53.1	37.9	46.8	46.8	46.9	46.9	50.2	36.9
	33	53.7	53.7	53.7	53.7	55.8	47.8	51.5	51.5	51.6	51.6	53.2	46.9	49.2	49.2	49.3	49.3	50.4	45.9

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
7646	24	37.6	34.2	41.9	25.8	46.2	17.1	35.2	33.1	39.1	24.7	43.1	16.0
	27	38.9	38.9	41.7	32.7	46.1	24.0	36.8	36.8	39.0	31.6	43.0	23.0
	30	41.2	41.2	41.9	39.6	46.0	30.9	38.9	38.9	39.3	38.6	42.8	29.9
	33	43.4	43.4	43.5	43.5	45.9	37.8	41.1	41.1	41.1	41.1	42.8	36.8
8495	24	38.3	36.3	42.5	27.0	46.8	17.4	35.7	35.7	39.6	25.9	43.6	16.3
	27	40.1	40.1	42.4	34.6	46.6	25.0	37.9	37.9	39.5	33.5	43.4	24.0
	30	42.5	42.5	42.7	42.3	46.5	32.6	40.1	40.1	40.1	40.1	43.3	31.6
	33	44.7	44.7	44.8	44.8	46.5	40.3	42.2	42.2	42.3	42.3	43.4	39.2
9345	24	38.8	38.8	42.9	28.2	47.2	17.7	36.5	36.5	40.0	27.1	43.9	16.6
	27	41.2	41.2	42.9	36.4	47.0	26.0	38.8	38.8	40.0	35.3	43.8	24.9
	30	43.5	43.5	43.6	43.6	46.9	34.3	41.1	41.1	41.1	41.1	43.7	33.2
	33	45.8	45.8	45.9	45.9	47.0	42.6	43.2	43.2	43.2	43.2	43.8	41.6
10194	24	39.6	39.6	43.3	29.3	47.5	18.0	37.3	37.3	40.4	28.2	44.2	16.9
	27	42.1	42.1	43.4	38.2	47.4	27.0	39.6	39.6	40.4	37.2	44.1	25.9
	30	44.5	44.5	44.5	44.5	47.2	35.9	41.9	41.9	41.9	41.9	44.0	34.9
	33	46.7	46.7	46.8	46.8	47.5	44.9	44.0	44.0	44.0	44.0	44.3	43.9

Notes:

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

Table 39. Gross cooling capacities (MBH) TTA2014DD condensing unit with TWE2014DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC
6000	75	199.9	160.5	217.3	124.2	233.7	86.3	190.8	156.2	207.2	119.9	221.5	81.8	181.2	151.5	196.4	115.4	208.5	77.1
	80	197.4	197.4	217.1	152.1	233.5	114.2	190.0	190.0	207.0	147.8	221.2	109.7	181.9	181.9	196.1	143.3	208.3	105.0
	85	206.7	206.7	216.9	179.5	233.3	142.1	198.8	198.8	206.8	175.2	221.0	137.6	190.2	190.2	196.1	170.6	208.0	132.9
	90	215.2	215.2	215.4	215.4	233.0	170.2	206.8	206.8	206.9	206.9	220.8	165.6	197.3	197.3	197.4	197.4	207.8	160.8
6680	75	203.1	167.9	219.8	128.2	236.6	87.4	191.0	171.4	209.3	124.0	223.9	82.9	181.9	164.8	198.2	119.4	210.4	78.1
	80	203.1	203.1	219.5	158.6	236.4	117.9	195.2	195.2	209.1	154.5	223.6	113.3	186.6	186.6	197.9	149.9	210.1	108.5
	85	212.2	212.2	219.4	188.5	236.2	148.3	203.8	203.8	209.1	184.1	223.3	144.0	194.6	194.6	198.0	179.5	209.8	139.2
	90	220.2	220.2	220.4	220.4	235.9	178.8	210.9	210.9	211.1	211.1	223.2	174.1	200.9	200.9	201.0	201.0	206.6	180.3
7350	75	203.1	183.0	221.7	132.1	239.0	88.5	194.3	176.7	210.9	127.7	225.8	83.8	184.9	169.9	199.5	123.1	211.8	79.0
	80	207.7	207.7	221.5	164.8	238.7	121.4	199.5	199.5	210.7	160.5	225.5	116.7	190.4	190.4	199.2	155.9	211.6	111.8
	85	216.6	216.6	221.5	197.0	238.4	154.5	207.6	207.6	210.9	192.6	225.2	149.8	197.8	197.8	199.6	188.0	211.3	145.1
	90	224.5	224.5	224.6	224.6	238.3	186.9	214.7	214.7	214.8	214.8	221.5	193.9	204.0	204.0	204.1	204.1	209.1	185.8
8030	75	206.2	188.1	223.6	135.9	240.9	89.5	193.9	193.9	212.5	131.5	227.4	84.8	185.1	185.1	200.7	127.3	213.0	79.8
	80	211.7	211.7	223.4	171.1	240.7	124.7	203.0	203.0	212.2	166.5	227.1	120.0	193.6	193.6	198.0	173.8	212.8	115.1
	85	220.1	220.1	223.7	205.5	240.4	160.5	210.6	210.6	212.8	201.1	226.8	155.6	200.3	200.3	201.3	196.1	212.5	150.6
	90	228.5	228.5	228.7	228.7	236.4	207.2	218.3	218.3	218.5	218.5	224.2	199.4	207.2	207.2	207.3	207.3	207.5	207.5

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	SHC	67 MBH	SHC	73 MBH	SHC
6000	75	169.0	152.5	184.7	110.7	194.5	72.2	158.9	145.3	171.9	105.6	179.0	66.7
	80	173.2	173.2	184.5	138.7	194.3	100.1	163.5	163.5	171.6	133.4	178.7	94.7
	85	180.8	180.8	184.5	165.8	194.0	128.2	170.0	170.0	171.9	160.6	178.4	122.7
	90	186.7	186.7	186.7	186.7	193.8	155.7	174.3	174.3	174.4	174.4	177.0	157.3
6680	75	172.3	157.9	186.1	114.6	195.9	73.0	159.5	159.5	172.9	109.4	179.7	67.5
	80	177.3	177.3	185.9	145.0	195.6	103.5	166.9	166.9	172.7	139.6	179.5	98.0
	85	184.3	184.3	186.2	174.7	195.3	134.4	172.6	172.6	173.2	168.7	179.2	128.7
	90	189.6	189.6	189.7	189.7	193.5	171.9	176.4	176.4	176.4	176.4	178.6	162.3
7350	75	172.6	172.6	187.2	118.3	196.9	73.8	162.6	162.6	173.7	113.4	180.2	68.2
	80	180.6	180.6	186.9	150.9	196.6	106.7	169.5	169.5	172.3	153.6	180.0	101.1
	85	186.8	186.8	187.6	182.8	196.3	139.8	174.3	174.3	174.4	172.2	179.7	134.0
	90	192.2	192.2	192.3	192.3	192.4	192.4	178.3	178.3	178.3	178.3	178.4	178.4
8030	75	175.6	175.6	188.1	122.3	197.6	74.6	165.1	165.1	174.4	117.3	180.6	69.0
	80	183.2	183.2	186.4	165.9	197.4	109.9	171.5	171.5	173.4	157.2	180.3	104.7
	85	188.9	188.8	189.0	186.0	197.1	145.2	175.8	175.8	175.6	175.6	180.0	139.3
	90	194.7	194.7	194.7	194.7	194.8	194.8	179.5	179.5	179.5	179.5	179.5	179.5

Notes:

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

Table 40. Gross cooling capacities (kW) TTA2014DD condensing unit with TWE2014DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 35 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 40 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC
10194	24	58.6	47.0	63.7	36.4	68.5	25.3	55.9	45.8	60.7	35.2	64.9	24.0	53.1	44.4	57.6	33.8	61.1	22.6
	27	57.9	57.9	63.6	44.6	68.4	33.5	55.7	55.7	60.7	43.3	64.8	32.2	53.3	53.3	57.5	42.0	61.0	30.8
	30	60.6	60.6	63.6	52.6	68.4	41.6	58.3	58.3	60.6	51.3	64.8	40.3	55.7	55.7	57.5	50.0	61.0	38.9
	33	63.1	63.1	63.1	63.1	68.3	49.9	60.6	60.6	60.6	60.6	64.7	48.5	57.8	57.8	57.9	57.9	60.9	47.1
11349	24	59.5	49.2	64.4	37.6	69.4	25.6	56.0	50.2	61.4	36.3	65.6	24.3	53.3	48.3	58.1	35.0	61.7	22.9
	27	59.5	59.5	64.3	46.5	69.3	34.6	57.2	57.2	61.3	45.3	65.5	33.2	54.7	54.7	58.0	43.9	61.6	31.8
	30	62.2	62.2	64.3	55.2	69.2	43.5	59.7	59.7	61.3	54.0	65.5	42.2	57.0	57.0	58.0	52.6	61.5	40.8
	33	64.5	64.5	64.6	64.6	69.1	52.4	61.8	61.8	61.9	61.9	65.4	51.0	58.9	58.9	58.9	58.9	60.5	52.8
12488	24	59.5	53.6	65.0	38.7	70.0	25.9	57.0	51.8	61.8	37.4	66.2	24.6	54.2	49.8	58.5	36.1	62.1	23.1
	27	60.9	60.9	64.9	48.3	70.0	35.6	58.5	58.5	61.7	47.0	66.1	34.2	55.8	55.8	58.4	45.7	62.0	32.8
	30	63.5	63.5	64.9	57.7	69.9	45.3	60.9	60.9	61.8	56.4	66.0	43.9	58.0	58.0	58.5	55.1	61.9	42.5
	33	65.8	65.8	65.8	65.8	69.8	54.8	62.9	62.9	63.0	63.0	64.9	56.8	59.8	59.8	59.8	59.8	61.3	54.5
13643	24	60.4	55.1	65.5	39.8	70.6	26.2	56.8	56.8	62.3	38.5	66.6	24.8	54.2	54.2	58.8	37.3	62.4	23.4
	27	62.0	62.0	65.5	50.1	70.5	36.6	59.5	59.5	62.2	48.8	66.6	35.2	56.7	56.7	58.0	50.9	62.4	33.7
	30	64.5	64.5	65.6	60.2	70.4	47.0	61.7	61.7	62.4	58.9	66.5	45.6	58.7	58.7	59.0	57.5	62.3	44.1
	33	67.0	67.0	67.0	67.0	69.3	60.7	64.0	64.0	64.0	64.0	65.7	58.4	60.7	60.7	60.8	60.8	60.8	60.8

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC	Ambient Temperature (°C) 52 Entering Wet Bulb (°C) 16 kW	SHC	19 kW	SHC	22 kW	SHC
10194	24	49.5	44.7	54.1	32.4	57.0	21.1	46.6	42.6	50.4	30.9	52.4	19.6
	27	50.8	50.8	54.1	40.6	56.9	29.3	47.9	47.9	50.3	39.1	52.4	27.7
	30	53.0	53.0	54.1	48.6	56.9	37.6	49.8	49.8	50.4	47.1	52.3	36.0
	33	54.7	54.7	54.7	54.7	56.8	45.6	51.1	51.1	51.1	51.1	51.9	46.1
11349	24	50.5	46.3	54.6	33.6	57.4	21.4	46.8	46.8	50.7	32.1	52.7	19.8
	27	52.0	52.0	54.5	42.5	57.3	30.3	48.9	48.9	50.6	40.9	52.6	28.7
	30	54.0	54.0	54.6	51.2	57.2	39.4	50.6	50.6	50.8	49.5	52.5	37.7
	33	55.6	55.6	55.6	55.6	56.7	50.4	51.7	51.7	51.7	51.7	52.3	47.6
12488	24	50.6	50.6	54.9	34.7	57.7	21.6	47.6	47.6	50.9	33.2	52.8	20.0
	27	52.9	52.9	54.8	44.2	57.6	31.3	49.7	49.7	50.5	45.0	52.7	29.6
	30	54.7	54.7	55.0	53.6	57.5	41.0	51.1	51.1	51.1	50.5	52.7	39.3
	33	56.3	56.3	56.4	56.4	56.4	56.4	52.3	52.3	52.3	52.3	52.3	52.3
13643	24	51.5	51.5	55.1	35.8	57.9	21.9	48.4	48.4	51.1	34.4	52.9	20.2
	27	53.7	53.7	54.6	48.6	57.8	32.2	50.3	50.3	50.8	46.1	52.8	30.7
	30	55.3	55.3	55.4	54.5	57.8	42.5	51.5	51.5	51.5	51.5	52.7	40.8
	33	57.1	57.1	57.1	57.1	57.1	57.1	52.6	52.6	52.6	52.6	52.6	52.6

Notes:

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

Table 41. Gross cooling capacities (MBH) one compressor - TTA2014DC condensing unit with TWE2014DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 95 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 105 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
6000	75	130.6	130.6	144.4	94.8	157.6	59.4	125.3	125.3	137.5	92.2	150.3	56.9	119.4	119.4	129.8	89.3	142.0	54.2
	80	138.6	138.6	144.1	122.2	157.3	87.3	133.1	133.1	137.3	119.5	149.9	84.8	126.8	126.8	126.9	126.9	141.6	82.1
	85	146.5	146.5	146.4	146.4	156.9	115.1	140.7	140.7	140.8	140.8	149.5	112.6	134.1	134.1	134.2	134.2	141.3	109.9
	90	153.7	153.7	153.9	153.9	156.8	142.4	147.6	147.6	147.7	147.7	149.6	139.8	140.6	140.6	140.7	140.7	141.6	137.0
6680	75	133.8	133.8	145.9	99.1	158.7	60.4	128.3	128.3	138.9	96.4	151.3	57.9	122.1	122.1	131.1	93.5	142.9	55.2
	80	142.0	142.0	142.1	142.1	158.3	90.9	136.2	136.2	136.3	136.3	150.9	88.4	129.7	129.7	129.8	129.8	142.5	85.6
	85	149.9	149.9	150.0	150.0	157.9	121.2	143.8	143.8	143.9	143.9	150.5	118.7	136.9	136.9	137.0	137.0	142.1	115.9
	90	156.7	156.7	156.8	156.8	158.1	150.8	150.3	150.3	150.3	150.3	150.9	148.3	142.8	142.8	142.8	142.8	142.9	142.9
7350	75	136.5	136.5	147.2	103.1	159.6	61.4	130.8	130.8	140.1	100.4	152.1	58.9	124.4	124.4	132.2	97.5	143.6	56.1
	80	144.8	144.8	144.9	144.9	159.2	94.2	138.8	138.8	138.9	138.9	151.6	91.7	132.1	132.1	132.2	132.2	143.2	89.0
	85	152.6	152.6	152.7	152.7	158.7	126.9	146.3	146.3	146.4	146.4	151.2	124.4	139.2	139.2	139.3	139.3	142.8	121.7
	90	158.9	158.9	158.9	158.9	159.2	158.8	152.1	152.1	152.1	152.1	152.0	152.0	144.1	144.1	144.1	144.1	144.1	144.1
8030	75	138.9	138.9	148.3	107.0	160.3	62.3	133.0	133.0	141.1	104.3	152.7	59.8	126.4	126.4	133.0	101.4	144.2	57.1
	80	147.3	147.3	147.4	147.4	159.8	97.5	141.1	141.1	141.2	141.2	152.3	95.0	134.1	134.1	134.2	134.2	143.7	92.3
	85	154.9	154.9	155.0	155.0	159.3	132.5	148.4	148.4	148.5	148.5	148.5	148.5	141.0	141.0	141.1	141.1	141.1	141.1
	90	160.3	160.3	160.3	160.3	160.2	160.2	153.1	153.1	153.1	153.1	153.1	153.1	144.7	144.7	144.7	144.7	144.7	144.7

CFM	Ent DB (°F)	Ambient Temperature (°F) 115 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC	Ambient Temperature (°F) 125 Entering Wet Bulb (°F) 61 MBH	61 SHC	67 MBH	67 SHC	73 MBH	73 SHC
6000	75	113.0	113.0	121.6	86.2	132.9	51.2	106.6	106.6	113.3	83.1	123.5	48.1
	80	120.0	120.0	120.1	120.1	132.6	79.1	113.0	113.0	113.0	113.0	123.1	76.0
	85	126.9	126.9	127.0	127.0	132.2	106.9	119.2	119.2	119.3	119.3	122.8	103.8
	90	132.7	132.7	132.7	132.7	132.9	132.9	124.0	124.0	124.0	124.0	124.0	124.0
6680	75	115.4	115.4	122.7	90.4	133.7	52.2	108.7	108.7	114.2	87.3	124.1	49.1
	80	122.6	122.6	122.7	122.7	133.4	82.6	115.2	115.2	115.3	115.3	123.7	79.5
	85	129.4	129.4	129.4	129.4	133.0	113.0	121.3	121.3	121.3	121.3	121.4	121.4
	90	134.3	134.3	134.3	134.3	134.4	134.4	124.7	124.7	124.7	124.7	124.7	124.7
7350	75	117.5	117.5	123.7	94.4	134.3	53.2	110.4	110.4	115.0	91.2	124.7	50.1
	80	124.7	124.7	124.8	124.8	133.9	86.0	117.1	117.1	117.1	117.1	124.2	82.9
	85	131.3	131.3	131.4	131.4	131.4	131.4	122.8	122.8	122.9	122.9	122.9	122.9
	90	135.0	135.0	135.0	135.0	134.9	134.9	124.6	124.6	124.5	124.5	124.5	124.5
8030	75	119.3	119.3	124.4	98.2	134.9	54.1	111.9	111.9	115.7	94.5	125.1	51.0
	80	126.6	126.6	126.6	126.6	134.4	89.3	118.6	118.6	118.7	118.7	124.6	86.2
	85	132.8	132.8	132.8	132.8	132.9	132.9	123.9	123.9	123.9	123.9	124.0	124.0
	90	135.4	135.4	135.4	135.4	135.4	135.4	124.9	124.9	124.9	124.9	124.9	124.9

Notes:

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

Table 42. Gross cooling capacities (kW) one compressor - TTA2014DC condensing unit with TWE2014DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	38.3	38.3	42.3	27.8	46.2	17.4	36.7	36.7	40.3	27.0	44.0	16.7	35.0	35.0	38.0	26.2	41.6	15.9
	27	40.6	40.6	42.2	35.8	46.1	25.6	39.0	39.0	40.2	35.0	43.9	24.9	37.2	37.2	37.2	37.2	41.5	24.0
	30	42.9	42.9	42.9	42.9	46.0	33.7	41.2	41.2	41.2	41.2	43.8	33.0	39.3	39.3	39.3	39.3	41.4	32.2
	33	45.0	45.0	45.1	45.1	45.9	41.7	43.2	43.2	43.3	43.3	43.8	41.0	41.2	41.2	41.2	41.2	41.5	40.1
11349	24	39.2	39.2	42.8	29.0	46.5	17.7	37.6	37.6	40.7	28.3	44.3	17.0	35.8	35.8	38.4	27.4	41.9	16.2
	27	41.6	41.6	41.6	41.6	46.4	26.6	39.9	39.9	39.9	39.9	44.2	25.9	38.0	38.0	38.0	38.0	41.8	25.1
	30	43.9	43.9	43.9	43.9	46.3	35.5	42.1	42.1	42.2	42.2	44.1	34.8	40.1	40.1	40.1	40.1	41.6	34.0
	33	45.9	45.9	46.0	46.0	46.3	44.2	44.0	44.0	44.0	44.0	44.2	43.4	41.8	41.8	41.9	41.9	41.9	41.9
12488	24	40.0	40.0	43.1	30.2	46.8	18.0	38.3	38.3	41.0	29.4	44.6	17.3	36.4	36.4	38.7	28.6	42.1	16.5
	27	42.4	42.4	42.5	42.5	46.6	27.6	40.7	40.7	40.7	40.7	44.4	26.9	38.7	38.7	38.7	38.7	42.0	26.1
	30	44.7	44.7	44.7	44.7	46.5	37.2	42.9	42.9	42.9	42.9	44.3	36.5	40.8	40.8	40.8	40.8	41.8	35.7
	33	46.5	46.5	46.6	46.6	46.6	46.5	44.6	44.6	44.6	44.6	44.5	44.5	42.2	42.2	42.2	42.2	42.2	42.2
13643	24	40.7	40.7	43.4	31.3	47.0	18.2	39.0	39.0	41.3	30.6	44.7	17.5	37.0	37.0	39.0	29.7	42.2	16.7
	27	43.1	43.1	43.2	43.2	46.8	28.6	41.3	41.3	41.4	41.4	44.6	27.8	39.3	39.3	39.3	39.3	42.1	27.0
	30	45.4	45.4	45.4	45.4	46.7	38.8	43.5	43.5	43.5	43.5	43.5	43.5	41.3	41.3	41.3	41.3	41.3	41.3
	33	47.0	47.0	47.0	47.0	46.9	46.9	44.9	44.9	44.9	44.9	44.9	44.9	42.4	42.4	42.4	42.4	42.4	42.4

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	33.1	33.1	35.6	25.3	38.9	15.0	31.2	31.2	33.2	24.4	36.2	14.1
	27	35.2	35.2	35.2	35.2	38.8	23.2	33.1	33.1	33.1	33.1	36.1	22.3
	30	37.2	37.2	37.2	37.2	38.7	31.3	34.9	34.9	35.0	35.0	36.0	30.4
	33	38.9	38.9	38.9	38.9	38.9	38.9	36.3	36.3	36.3	36.3	36.3	36.3
11349	24	33.8	33.8	36.0	26.5	39.2	15.3	31.8	31.8	33.5	25.6	36.4	14.4
	27	35.9	35.9	35.9	35.9	39.1	24.2	33.8	33.8	33.8	33.8	36.3	23.3
	30	37.9	37.9	37.9	37.9	39.0	33.1	35.5	35.5	35.6	35.6	35.6	35.6
	33	39.4	39.4	39.4	39.4	39.4	39.4	36.5	36.5	36.5	36.5	36.5	36.5
12488	24	34.4	34.4	36.2	27.6	39.4	15.6	32.4	32.4	33.7	26.7	36.5	14.7
	27	36.5	36.5	36.6	36.6	39.2	25.2	34.3	34.3	34.3	34.3	36.4	24.3
	30	38.5	38.5	38.5	38.5	38.5	38.5	36.0	36.0	36.0	36.0	36.0	36.0
	33	39.6	39.6	39.5	39.5	39.5	39.5	36.5	36.5	36.5	36.5	36.5	36.5
13643	24	34.9	34.9	36.5	28.8	39.5	15.8	32.8	32.8	33.9	27.7	36.6	14.9
	27	37.1	37.1	37.1	37.1	39.4	26.2	34.8	34.8	34.8	34.8	36.5	25.2
	30	38.9	38.9	38.9	38.9	38.9	38.9	36.3	36.3	36.3	36.3	36.3	36.3
	33	39.7	39.7	39.7	39.7	39.7	39.7	36.6	36.6	36.6	36.6	36.6	36.6

Notes:

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

Table 43. Gross cooling capacities (MBH) both compressors - TTA2014DC condensing unit with TWE2014DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	211.1	166.1	230.8	129.9	247.2	91.2	201.5	161.3	219.9	125.1	233.8	86.2	190.9	156.2	207.5	119.9	219.1	80.8
	80	206.7	206.7	230.5	157.5	246.8	119.1	198.8	198.8	219.5	152.8	233.5	114.1	190.1	190.1	207.2	147.6	218.7	108.7
	85	216.7	216.7	230.2	185.3	246.5	146.9	208.4	208.4	219.2	180.5	233.1	141.9	199.0	199.0	206.8	175.2	218.4	136.5
	90	226.1	226.1	230.5	212.5	246.0	175.4	217.1	217.1	219.7	207.8	232.7	170.2	206.8	206.8	207.7	202.6	218.0	164.6
6680	75	215.0	173.4	233.8	134.0	250.3	92.3	204.9	168.8	222.3	129.2	236.3	87.2	193.9	163.5	209.5	123.9	220.9	81.6
	80	213.1	213.1	233.4	164.2	249.9	122.8	204.7	204.7	222.0	159.4	235.9	117.6	195.4	195.4	209.2	154.1	220.5	112.1
	85	223.1	223.1	233.1	194.3	249.6	153.1	214.1	214.1	221.7	189.4	235.3	148.7	203.9	203.9	208.9	184.0	220.2	142.4
	90	232.0	232.0	233.9	224.2	249.1	183.9	222.2	222.2	222.9	219.4	235.2	178.6	210.7	210.7	210.5	210.5	219.8	172.9
7350	75	218.0	180.6	236.0	137.8	252.8	93.3	207.7	175.8	224.2	133.0	238.3	88.1	196.3	170.6	211.0	127.6	222.3	82.4
	80	218.4	218.4	235.6	170.4	252.4	126.2	209.6	209.6	223.9	165.6	237.9	121.0	199.7	199.7	210.6	160.2	221.9	115.3
	85	228.2	228.2	235.3	202.8	252.0	158.9	218.7	218.7	223.6	197.8	237.5	153.7	207.7	207.7	210.6	192.4	221.5	148.1
	90	236.5	236.5	236.8	235.3	251.6	191.9	225.7	225.7	225.6	225.6	237.1	186.5	213.3	213.3	213.4	213.4	221.2	180.7
8030	75	220.6	187.5	237.7	141.5	254.8	94.3	210.0	182.7	225.7	136.7	239.8	89.0	194.1	194.1	212.1	131.3	223.3	83.2
	80	223.0	223.0	237.4	176.5	254.4	129.5	213.7	213.7	225.3	171.9	239.4	124.2	203.2	203.2	211.7	166.2	223.0	118.5
	85	232.4	232.4	237.2	211.0	254.1	164.6	222.3	222.3	225.2	206.0	239.1	159.3	210.5	210.5	211.8	200.5	222.6	153.6
	90	240.1	240.1	239.8	239.8	253.7	199.8	229.1	229.1	229.2	229.2	238.7	194.3	216.4	216.4	216.5	216.5	222.2	188.3

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
6000	75	179.6	150.8	194.3	114.4	203.1	75.0	168.4	145.5	180.7	108.9	186.2	69.1
	80	180.6	180.6	193.9	142.1	202.7	102.9	170.9	170.9	180.3	137.0	185.9	97.0
	85	188.6	188.6	193.6	169.5	202.4	130.7	177.6	177.6	180.1	163.8	185.5	124.8
	90	195.0	195.0	194.9	194.9	202.0	158.7	181.6	181.6	181.6	181.6	185.1	152.5
6680	75	182.2	158.2	195.8	118.3	204.2	75.7	167.0	167.0	181.7	112.7	186.7	69.7
	80	185.2	185.2	195.4	148.5	203.8	106.2	174.6	174.6	181.3	142.9	186.3	100.1
	85	192.6	192.6	195.3	178.3	203.5	136.5	180.3	180.3	181.2	172.4	185.9	130.4
	90	197.2	197.2	197.2	197.2	203.1	166.7	183.1	183.1	183.1	183.1	185.4	160.4
7350	75	180.4	180.4	196.9	122.0	205.0	76.4	170.3	170.3	182.4	116.3	186.8	70.3
	80	188.8	188.8	196.5	154.6	204.6	109.3	177.4	177.4	181.9	148.9	186.5	103.1
	85	195.4	195.4	196.5	186.5	204.2	142.0	181.8	181.8	181.9	180.5	186.0	135.8
	90	199.8	199.8	199.9	199.9	203.8	174.4	184.8	184.8	184.8	184.8	185.4	167.8
8030	75	183.7	183.7	197.7	125.6	205.5	77.1	173.0	173.0	182.8	119.8	186.9	70.8
	80	191.8	191.8	197.2	160.4	205.2	112.4	179.6	179.6	182.3	154.4	186.5	106.1
	85	197.1	197.1	197.3	194.5	204.7	147.4	182.7	182.7	182.6	182.6	185.9	141.1
	90	202.1	202.1	202.2	202.2	204.3	181.9	185.4	185.4	185.4	185.4	185.1	175.1

Notes:

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

Table 44. Gross cooling capacities (kW) both compressors - TTA2014DC condensing unit with TWE2014DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	61.9	48.7	67.6	38.0	72.4	26.7	59.0	47.3	64.4	36.7	68.5	25.3	55.9	45.8	60.8	35.1	64.2	23.7
	27	60.6	60.6	67.5	46.2	72.3	34.9	58.3	58.3	64.3	44.8	68.4	33.4	55.7	55.7	60.7	43.2	64.1	31.8
	30	63.5	63.5	67.4	54.3	72.2	43.1	61.1	61.1	64.2	52.9	68.3	41.6	58.3	58.3	60.6	51.3	64.0	40.0
	33	66.2	66.2	67.5	62.3	72.1	51.4	63.6	63.6	64.4	60.9	68.2	49.9	60.6	60.6	60.9	59.4	63.9	48.2
11349	24	63.0	50.8	68.5	39.3	73.3	27.1	60.0	49.5	65.1	37.9	69.2	25.5	56.8	47.9	61.4	36.3	64.7	23.9
	27	62.4	62.4	68.4	48.1	73.2	36.0	60.0	60.0	65.0	46.7	69.1	34.5	57.2	57.2	61.3	45.2	64.6	32.8
	30	65.4	65.4	68.3	56.9	73.1	44.9	62.7	62.7	65.0	55.5	68.9	43.6	59.8	59.8	61.2	53.9	64.5	41.7
	33	68.0	68.0	68.5	65.7	73.0	53.9	65.1	65.1	65.3	64.3	68.9	52.3	61.7	61.7	61.7	61.7	64.4	50.7
12488	24	63.9	52.9	69.1	40.4	74.1	27.3	60.8	51.5	65.7	39.0	69.8	25.8	57.5	50.0	61.8	37.4	65.1	24.2
	27	64.0	64.0	69.0	49.9	74.0	37.0	61.4	61.4	65.6	48.5	69.7	35.4	58.5	58.5	61.7	46.9	65.0	33.8
	30	66.9	66.9	68.9	59.4	73.8	46.6	64.1	64.1	65.5	58.0	69.6	45.0	60.9	60.9	61.7	56.4	64.9	43.4
	33	69.3	69.3	69.4	68.9	73.7	56.2	66.1	66.1	66.1	66.1	69.5	54.7	62.5	62.5	62.5	62.5	64.8	52.9
13643	24	64.6	54.9	69.7	41.5	74.7	27.6	61.5	53.5	66.1	40.0	70.3	26.1	56.9	56.9	62.2	38.5	65.4	24.4
	27	65.3	65.3	69.6	51.7	74.6	37.9	62.6	62.6	66.0	50.4	70.2	36.4	59.5	59.5	62.0	48.7	65.3	34.7
	30	68.1	68.1	69.5	61.8	74.4	48.2	65.1	65.1	66.0	60.4	70.0	46.7	61.7	61.7	62.1	58.7	65.2	45.0
	33	70.4	70.4	70.3	70.3	74.3	58.5	67.1	67.1	67.2	67.2	69.9	56.9	63.4	63.4	63.4	63.4	65.1	55.2

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
10194	24	52.6	44.2	56.9	33.5	59.5	22.0	49.4	42.6	52.9	31.9	54.6	20.2
	27	52.9	52.9	56.8	41.6	59.4	30.2	50.1	50.1	52.8	40.1	54.5	28.4
	30	55.3	55.3	56.7	49.7	59.3	38.3	52.0	52.0	52.8	48.0	54.3	36.6
	33	57.1	57.1	57.1	57.1	59.2	46.5	53.2	53.2	53.2	53.2	54.2	44.7
11349	24	53.4	46.3	57.4	34.7	59.8	22.2	48.9	48.9	53.2	33.0	54.7	20.4
	27	54.3	54.3	57.3	43.5	59.7	31.1	51.2	51.2	53.1	41.9	54.6	29.3
	30	56.4	56.4	57.2	52.2	59.6	40.0	52.8	52.8	53.1	50.5	54.5	38.2
	33	57.8	57.8	57.8	57.8	59.5	48.9	53.6	53.6	53.7	53.7	54.3	47.0
12488	24	52.9	52.9	57.7	35.7	60.1	22.4	49.9	49.9	53.4	34.1	54.7	20.6
	27	55.3	55.3	57.6	45.3	60.0	32.0	52.0	52.0	53.3	43.6	54.6	30.2
	30	57.3	57.3	57.6	54.7	59.8	41.6	53.3	53.3	53.3	52.9	54.5	39.8
	33	58.5	58.5	58.6	58.6	59.7	51.1	54.1	54.1	54.1	54.1	54.3	49.2
13643	24	53.8	53.8	57.9	36.8	60.2	22.6	50.7	50.7	53.6	35.1	54.7	20.8
	27	56.2	56.2	57.8	47.0	60.1	32.9	52.6	52.6	53.4	45.3	54.6	31.1
	30	57.8	57.8	57.8	57.0	60.0	43.2	53.5	53.5	53.5	53.5	54.5	41.3
	33	59.2	59.2	59.2	59.2	59.9	53.3	54.3	54.3	54.3	54.3	54.2	51.3

Notes:

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

Table 45. Gross cooling capacities (MBH) one compressor - TTA2514DC condensing unit with TWE2514DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	152.9	152.9	166.6	114.1	183.1	69.7	147.1	147.1	159.1	111.3	175.0	67.0	140.5	140.5	150.8	108.1	165.8	64.0
	80	162.2	162.2	166.3	148.8	182.3	105.1	156.0	156.0	156.2	156.2	174.1	102.4	149.1	149.1	149.2	149.2	165.0	99.3
	85	171.4	171.4	171.6	171.6	181.5	140.4	164.9	164.9	165.1	165.1	173.4	137.6	157.6	157.6	157.7	157.7	164.3	134.6
	90	180.1	180.1	180.3	180.3	181.8	175.1	173.2	173.2	173.3	173.3	174.0	172.4	165.4	165.4	165.5	165.5	165.6	165.6
8350	75	156.4	156.4	168.3	119.6	184.5	71.1	150.4	150.4	160.7	116.7	176.2	68.4	143.5	143.5	152.2	113.5	167.0	65.3
	80	166.0	166.0	166.1	166.1	183.7	109.7	159.6	159.6	159.7	159.7	175.4	107.0	152.3	152.3	152.4	152.4	166.2	104.0
	85	175.3	175.3	175.4	175.4	182.9	148.3	168.5	168.5	168.7	168.7	174.7	145.1	160.9	160.9	161.0	161.0	165.5	142.0
	90	183.7	183.7	183.8	183.8	184.0	184.0	176.4	176.4	176.5	176.5	176.5	176.5	168.2	168.2	168.2	168.2	168.3	168.3
9200	75	159.5	159.5	169.7	124.8	185.6	72.4	153.2	153.2	162.0	121.9	177.3	69.7	146.1	146.1	153.3	118.7	167.9	66.6
	80	169.2	169.2	169.3	169.3	184.8	114.2	162.6	162.6	162.7	162.7	176.4	111.5	155.1	155.1	155.1	155.1	167.1	108.4
	85	178.5	178.5	178.6	178.6	184.0	155.3	171.5	171.5	171.6	171.6	171.7	171.7	163.6	163.6	163.6	163.6	163.7	163.7
	90	186.3	186.3	186.4	186.4	186.5	186.5	178.7	178.7	178.7	178.7	178.8	178.8	170.0	170.0	170.0	170.0	170.0	170.0
10050	75	162.1	162.1	170.9	129.8	186.5	73.6	155.7	155.7	163.1	126.9	178.1	70.9	148.3	148.3	154.3	123.7	168.7	67.9
	80	171.9	171.9	172.1	172.1	185.7	118.5	165.1	165.1	165.2	165.2	177.3	115.8	157.4	157.4	157.5	157.5	167.8	112.7
	85	181.2	181.2	181.3	181.3	181.4	181.4	173.9	173.9	174.0	174.0	174.1	174.1	165.7	165.7	165.8	165.8	165.9	165.9
	90	188.2	188.2	188.2	188.2	188.2	188.2	180.2	180.2	180.2	180.2	180.2	180.2	171.0	171.0	170.9	170.9	170.9	170.9

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	133.5	133.5	141.8	104.8	155.8	60.7	126.9	126.9	133.4	101.7	145.8	57.4
	80	141.5	141.5	141.6	141.6	155.1	96.1	134.1	134.1	134.2	134.2	145.0	92.8
	85	149.5	149.5	149.7	149.7	154.4	130.9	141.3	141.3	141.4	141.4	144.4	127.5
	90	156.6	156.6	156.7	156.7	156.8	156.8	147.2	147.2	147.2	147.2	147.3	147.3
8350	75	136.2	136.2	143.1	110.2	156.9	62.0	129.2	129.2	134.4	107.0	146.7	58.8
	80	144.4	144.4	144.5	144.5	156.1	100.7	136.5	136.5	136.6	136.6	145.8	97.4
	85	152.5	152.5	152.5	152.5	152.6	152.6	143.7	143.7	143.8	143.8	143.9	143.9
	90	158.8	158.8	158.8	158.8	158.8	158.8	148.5	148.5	148.4	148.4	148.4	148.4
9200	75	138.5	138.5	144.1	115.4	157.7	63.3	131.2	131.2	135.2	112.1	147.3	60.0
	80	146.9	146.9	147.0	147.0	156.9	105.2	138.7	138.7	138.7	138.7	146.5	101.8
	85	154.8	154.8	154.9	154.9	154.9	154.9	145.6	145.6	145.7	145.7	145.7	145.7
	90	159.9	159.9	159.9	159.9	159.9	159.9	149.4	149.4	149.4	149.4	149.5	149.5
10050	75	140.5	140.5	145.0	120.4	158.4	64.6	132.9	132.9	135.9	116.3	147.9	61.3
	80	149.0	149.0	149.1	149.1	157.5	109.5	140.5	140.5	140.5	140.5	147.0	106.1
	85	156.6	156.6	156.7	156.7	156.8	156.8	147.1	147.1	147.1	147.1	147.2	147.2
	90	160.1	160.1	160.0	160.0	159.9	159.9	150.4	150.4	150.4	150.4	150.4	150.4

Notes:

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

Table 46. Gross cooling capacities (kW) one compressor - TTA2514DC condensing unit with TWE2514DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
12742	24	44.8	44.8	48.8	33.4	53.6	20.4	43.1	43.1	46.6	32.6	51.3	19.6	41.2	41.2	44.2	31.7	48.6	18.7
	27	47.5	47.5	48.7	43.6	53.4	30.8	45.7	45.7	45.8	45.8	51.0	30.0	43.7	43.7	43.7	43.7	48.3	29.1
	30	50.2	50.2	50.3	50.3	53.2	41.1	48.3	48.3	48.4	48.4	50.8	40.3	46.2	46.2	46.2	46.2	48.1	39.4
	33	52.8	52.8	52.8	52.8	53.3	51.3	50.8	50.8	50.8	50.8	51.0	50.5	48.5	48.5	48.5	48.5	48.5	48.5
14187	24	45.8	45.8	49.3	35.0	54.1	20.8	44.1	44.1	47.1	34.2	51.6	20.0	42.1	42.1	44.6	33.3	48.9	19.1
	27	48.6	48.6	48.7	48.7	53.8	32.2	46.8	46.8	46.8	46.8	51.4	31.4	44.6	44.6	44.7	44.7	48.7	30.5
	30	51.4	51.4	51.4	51.4	53.6	43.4	49.4	49.4	49.4	49.4	51.2	42.5	47.1	47.1	47.2	47.2	48.5	41.6
	33	53.8	53.8	53.8	53.8	53.9	53.9	51.7	51.7	51.7	51.7	51.7	51.7	49.3	49.3	49.3	49.3	49.3	49.3
15631	24	46.7	46.7	49.7	36.6	54.4	21.2	44.9	44.9	47.5	35.7	51.9	20.4	42.8	42.8	44.9	34.8	49.2	19.5
	27	49.6	49.6	49.6	49.6	54.1	33.5	47.6	47.6	47.7	47.7	51.7	32.7	45.4	45.4	45.5	45.5	49.0	31.8
	30	52.3	52.3	52.3	52.3	53.9	45.5	50.2	50.2	50.3	50.3	50.3	50.3	47.9	47.9	47.9	47.9	48.0	48.0
	33	54.6	54.6	54.6	54.6	54.6	54.6	52.4	52.4	52.4	52.4	52.4	52.4	49.8	49.8	49.8	49.8	49.8	49.8
17075	24	47.5	47.5	50.1	38.0	54.7	21.6	45.6	45.6	47.8	37.2	52.2	20.8	43.5	43.5	45.2	36.3	49.4	19.9
	27	50.4	50.4	50.4	50.4	54.4	34.7	48.4	48.4	48.4	48.4	51.9	33.9	46.1	46.1	46.1	46.1	49.2	33.0
	30	53.1	53.1	53.1	53.1	53.1	53.1	51.0	51.0	51.0	51.0	51.0	51.0	48.6	48.6	48.6	48.6	48.6	48.6
	33	55.1	55.1	55.1	55.1	55.2	55.2	52.8	52.8	52.8	52.8	52.8	52.8	50.1	50.1	50.1	50.1	50.1	50.1

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
12742	24	39.1	39.1	41.6	30.7	45.7	17.8	37.2	37.2	39.1	29.8	42.7	16.8
	27	41.5	41.5	41.5	41.5	45.4	28.1	39.3	39.3	39.3	39.3	42.5	27.2
	30	43.8	43.8	43.8	43.8	45.2	38.3	41.4	41.4	41.4	41.4	42.3	37.4
	33	45.9	45.9	45.9	45.9	45.9	45.9	43.1	43.1	43.1	43.1	43.1	43.1
14187	24	39.9	39.9	41.9	32.3	46.0	18.2	37.9	37.9	39.4	31.4	43.0	17.2
	27	42.3	42.3	42.3	42.3	45.7	29.5	40.0	40.0	40.0	40.0	42.7	28.5
	30	44.7	44.7	44.7	44.7	44.7	44.7	42.1	42.1	42.1	42.1	42.2	42.2
	33	46.5	46.5	46.5	46.5	46.5	46.5	43.5	43.5	43.5	43.5	43.5	43.5
15631	24	40.6	40.6	42.2	33.8	46.2	18.6	38.4	38.4	39.6	32.9	43.2	17.6
	27	43.0	43.0	43.1	43.1	46.0	30.8	40.6	40.6	40.6	40.6	42.9	29.8
	30	45.4	45.4	45.4	45.4	45.4	45.4	42.7	42.7	42.7	42.7	42.7	42.7
	33	46.9	46.9	46.9	46.9	46.8	46.8	43.8	43.8	43.8	43.8	43.8	43.8
17075	24	41.2	41.2	42.5	35.3	46.4	18.9	38.9	38.9	39.8	34.1	43.3	17.9
	27	43.7	43.7	43.7	43.7	46.2	32.1	41.2	41.2	41.2	41.2	43.1	31.1
	30	45.9	45.9	45.9	45.9	45.9	45.9	43.1	43.1	43.1	43.1	43.1	43.1
	33	46.9	46.9	46.9	46.9	46.9	46.9	44.1	44.1	44.1	44.1	44.1	44.1

Notes:

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

Table 47. Gross cooling capacities (MBH) both compressors - TTA2514DC condensing unit with TWE2514DB air handler (IP)

CFM	Ent DB (°F)	Ambient Temperature (°F) 85						Ambient Temperature (°F) 95						Ambient Temperature (°F) 105					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	249.7	201.8	274.4	156.9	293.2	108.0	238.3	196.3	261.6	151.5	278.1	102.4	226.1	190.5	247.5	145.6	261.1	96.2
	80	247.0	247.0	273.7	191.9	292.4	143.4	237.7	237.7	260.8	186.5	277.4	137.8	227.5	227.5	246.8	180.7	260.3	131.6
	85	259.2	259.2	272.9	226.9	291.7	178.6	249.4	249.4	260.1	221.4	276.6	173.1	238.4	238.4	246.2	215.5	259.5	166.9
	90	270.8	270.8	273.8	261.8	290.9	214.3	260.3	260.3	261.5	256.5	275.8	208.6	248.3	248.3	248.3	248.3	258.7	202.2
8350	75	254.0	211.5	278.1	162.4	295.1	108.8	242.3	206.0	264.8	156.9	279.5	103.2	229.6	200.0	250.3	151.0	262.2	97.0
	80	254.6	254.6	277.2	201.2	294.3	147.5	244.7	244.7	264.0	195.7	278.7	141.8	233.8	233.8	249.5	189.6	261.4	135.7
	85	266.9	266.9	276.7	238.7	293.4	186.0	256.3	256.3	263.6	233.2	277.6	181.2	244.6	244.6	249.3	227.2	260.5	174.2
	90	278.1	278.1	278.7	277.3	292.6	224.7	266.7	266.7	266.5	266.5	277.0	218.9	253.5	253.5	253.7	253.7	259.7	212.5
9200	75	257.7	220.7	281.0	167.6	297.3	109.9	245.6	215.1	267.4	162.0	281.1	104.2	227.6	227.6	252.4	156.0	263.3	98.0
	80	261.0	261.0	280.2	209.4	296.5	151.8	250.6	250.6	266.6	203.8	280.3	146.0	239.1	239.1	251.7	197.6	262.5	139.8
	85	273.2	273.2	279.9	250.1	295.7	193.4	262.0	262.0	266.5	244.5	279.5	187.7	249.4	249.4	251.8	238.5	261.6	181.5
	90	283.8	283.8	283.6	283.6	294.9	235.1	271.4	271.4	271.5	271.5	278.7	229.1	256.9	256.9	257.0	257.0	260.9	222.7
10050	75	260.8	229.9	283.4	172.5	299.3	111.1	243.3	243.3	269.4	166.9	282.6	105.3	232.1	232.1	254.2	160.9	264.4	99.0
	80	266.5	266.5	282.6	217.2	298.4	156.0	255.6	255.6	268.7	211.5	281.8	150.1	243.5	243.5	253.4	205.3	263.5	143.9
	85	278.4	278.4	282.6	261.1	297.6	200.7	266.6	266.6	268.9	255.4	281.0	194.9	253.2	253.2	254.0	249.3	262.7	188.6
	90	288.0	288.0	288.2	288.2	296.9	245.1	274.6	274.6	274.7	274.7	280.2	239.1	258.6	258.6	258.6	258.6	262.0	232.6

CFM	Ent DB (°F)	Ambient Temperature (°F) 115						Ambient Temperature (°F) 125					
		Entering Wet Bulb (°F)						Entering Wet Bulb (°F)					
		61		67		73		61		67		73	
		MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC	MBH	SHC
7500	75	213.7	184.6	232.9	139.6	243.0	89.8	203.4	179.9	218.8	133.9	224.9	83.4
	80	216.9	216.9	232.1	174.7	242.2	125.2	206.9	206.9	218.0	169.3	224.1	118.8
	85	226.9	226.9	231.7	209.4	241.3	160.4	215.3	215.3	217.8	203.6	223.1	154.0
	90	235.2	235.2	235.3	235.3	240.5	195.5	221.3	221.3	221.3	221.3	222.2	188.9
8350	75	216.9	194.1	235.1	144.9	243.7	90.6	203.0	203.0	220.5	139.1	224.9	84.1
	80	222.5	222.5	234.3	183.4	242.9	129.2	211.4	211.4	219.7	177.4	224.1	122.8
	85	232.0	232.0	234.3	221.0	242.0	167.7	219.2	219.2	219.8	215.1	223.1	161.2
	90	238.8	238.8	238.8	238.8	241.1	205.8	222.4	222.4	222.3	222.3	222.1	199.1
9200	75	216.5	216.5	236.8	149.9	244.4	91.5	206.4	206.4	221.7	144.0	225.0	84.9
	80	227.0	227.0	236.1	191.3	243.6	133.3	215.1	215.1	220.9	185.2	224.2	126.7
	85	235.8	235.8	236.5	232.2	242.7	174.9	221.7	221.7	221.6	221.6	223.1	168.3
	90	240.2	240.2	240.2	240.2	241.9	215.9	222.0	222.0	221.9	221.9	221.9	208.9
10050	75	220.5	220.5	238.2	154.7	244.9	92.4	209.4	209.4	222.7	148.7	225.0	85.7
	80	230.7	230.7	237.4	198.9	244.1	137.3	218.0	218.0	221.9	193.2	224.1	130.6
	85	238.5	238.5	238.4	238.4	243.1	181.9	223.0	223.0	223.0	223.0	223.0	175.2
	90	241.3	241.2	241.3	241.3	242.3	225.7	221.9	221.9	221.8	221.8	221.2	218.2

Notes:

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

Table 48. Gross cooling capacities (kW) both compressors - TTA2514DC condensing unit with TWE2514DB air handler (SI)

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 30						Ambient Temperature (°C) 35						Ambient Temperature (°C) 40					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
12742	24	73.1	59.1	80.4	46.0	85.9	31.6	69.8	57.5	76.6	44.4	81.5	30.0	66.2	55.8	72.5	42.7	76.5	28.2
	27	72.4	72.4	80.2	56.2	85.7	42.0	69.7	69.7	76.4	54.6	81.3	40.4	66.7	66.7	72.3	52.9	76.3	38.6
	30	76.0	76.0	80.0	66.5	85.5	52.3	73.1	73.1	76.2	64.9	81.0	50.7	69.9	69.9	72.1	63.1	76.0	48.9
	33	79.4	79.4	80.2	76.7	85.2	62.8	76.3	76.3	76.6	75.2	80.8	61.1	72.8	72.8	72.8	72.8	75.8	59.3
14187	24	74.4	62.0	81.5	47.6	86.5	31.9	71.0	60.3	77.6	46.0	81.9	30.2	67.3	58.6	73.3	44.2	76.8	28.4
	27	74.6	74.6	81.2	59.0	86.2	43.2	71.7	71.7	77.4	57.3	81.7	41.6	68.5	68.5	73.1	55.6	76.6	39.8
	30	78.2	78.2	81.1	70.0	86.0	54.5	75.1	75.1	77.2	68.3	81.3	53.1	71.7	71.7	73.0	66.6	76.3	51.0
	33	81.5	81.5	81.7	81.2	85.7	65.8	78.1	78.1	78.1	78.1	81.2	64.1	74.3	74.3	74.3	74.3	76.1	62.3
15631	24	75.5	64.7	82.3	49.1	87.1	32.2	72.0	63.0	78.3	47.5	82.4	30.5	66.7	66.7	74.0	45.7	77.2	28.7
	27	76.5	76.5	82.1	61.4	86.9	44.5	73.4	73.4	78.1	59.7	82.1	42.8	70.1	70.1	73.7	57.9	76.9	41.0
	30	80.0	80.0	82.0	73.3	86.7	56.7	76.8	76.8	78.1	71.6	81.9	55.0	73.1	73.1	73.8	69.9	76.7	53.2
	33	83.1	83.1	83.1	83.1	86.4	68.9	79.5	79.5	79.6	79.6	81.6	67.1	75.3	75.3	75.3	75.3	76.4	65.3
17075	24	76.4	67.4	83.0	50.5	87.7	32.5	71.3	71.3	78.9	48.9	82.8	30.8	68.0	68.0	74.5	47.1	77.5	29.0
	27	78.1	78.1	82.8	63.7	87.4	45.7	74.9	74.9	78.7	62.0	82.6	44.0	71.4	71.4	74.2	60.2	77.2	42.1
	30	81.6	81.6	82.8	76.5	87.2	58.8	78.1	78.1	78.8	74.8	82.3	57.1	74.2	74.2	74.4	73.0	77.0	55.3
	33	84.4	84.4	84.4	84.4	87.0	71.8	80.5	80.5	80.5	80.5	82.1	70.1	75.8	75.8	75.8	75.8	76.8	68.2

Airflow m^3/hr	Ent DB (°C)	Ambient Temperature (°C) 45						Ambient Temperature (°C) 52					
		Entering Wet Bulb (°C)						Entering Wet Bulb (°C)					
		16		19		22		16		19		22	
		kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC	kW	SHC
12742	24	62.6	54.1	68.2	40.9	71.2	26.3	59.6	52.7	64.1	39.2	65.9	24.4
	27	63.6	63.6	68.0	51.2	71.0	36.7	60.6	60.6	63.9	49.6	65.7	34.8
	30	66.5	66.5	67.9	61.4	70.7	47.0	63.1	63.1	63.8	59.7	65.4	45.1
	33	68.9	68.9	69.0	69.0	70.5	57.3	64.8	64.8	64.8	64.8	65.1	55.4
14187	24	63.5	56.9	68.9	42.4	71.4	26.5	59.5	59.5	64.6	40.7	65.9	24.6
	27	65.2	65.2	68.7	53.7	71.2	37.9	61.9	61.9	64.4	52.0	65.7	36.0
	30	68.0	68.0	68.7	64.8	70.9	49.1	64.2	64.2	64.4	63.0	65.4	47.2
	33	70.0	70.0	70.0	70.0	70.6	60.3	65.2	65.2	65.1	65.1	65.1	58.3
15631	24	63.4	63.4	69.4	43.9	71.6	26.8	60.5	60.5	65.0	42.2	65.9	24.9
	27	66.5	66.5	69.2	56.0	71.4	39.1	63.0	63.0	64.7	54.3	65.7	37.1
	30	69.1	69.1	69.3	68.0	71.1	51.3	65.0	65.0	64.9	64.9	65.4	49.3
	33	70.4	70.4	70.4	70.4	70.9	63.3	65.1	65.1	65.0	65.0	65.0	61.2
17075	24	64.6	64.6	69.8	45.3	71.8	27.1	61.3	61.3	65.2	43.6	65.9	25.1
	27	67.6	67.6	69.5	58.3	71.5	40.2	63.9	63.9	65.0	56.6	65.7	38.3
	30	69.9	69.9	69.9	69.9	71.2	53.3	65.3	65.3	65.3	65.3	65.3	51.3
	33	70.7	70.7	70.7	70.7	71.0	66.1	65.0	65.0	65.0	65.0	64.8	63.9

Notes:

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

Table 49. Gross cooling capacities (MBH) TTA0604DA condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	242.7	247.8	253.1	258.5	264.1	269.6
	Capacity (Btuh/1000)	52.3	57.8	63.6	69.8	76.3	83.1
	Unit Power (kW)	2.8	2.8	2.9	2.9	3.0	3.0
75	Head Press (psig)	279.6	284.9	290.4	296.1	301.7	307.3
	Capacity (Btuh/1000)	49.5	54.7	60.2	66.0	72.1	78.4
	Unit Power (kW)	3.2	3.2	3.2	3.3	3.4	3.4
85	Head Press (psig)	320.1	325.6	331.3	337.1	342.9	348.6
	Capacity (Btuh/1000)	46.5	51.4	56.6	62.1	67.8	73.6
	Unit Power (kW)	3.6	3.6	3.7	3.7	3.8	3.8
95	Head Press (psig)	364.4	370.1	376.0	381.9	387.7	393.4
	Capacity (Btuh/1000)	43.4	48.0	52.9	58.0	63.3	68.7
	Unit Power (kW)	4.1	4.1	4.2	4.2	4.3	4.3
105	Head Press (psig)	412.6	418.4	424.4	430.4	436.2	441.8
	Capacity (Btuh/1000)	40.1	44.5	49.0	53.8	58.8	63.7
	Unit Power (kW)	4.6	4.7	4.7	4.7	4.8	4.8
115	Head Press (psig)	464.7	470.6	476.6	482.6	488.3	493.8
	Capacity (Btuh/1000)	36.7	40.8	45.1	49.6	54.1	58.6
	Unit Power (kW)	5.2	5.3	5.3	5.4	5.4	5.4
125	Head Press (psig)	520.7	526.5	532.3	538.1	543.5	548.6
	Capacity (Btuh/1000)	33.2	37.1	41.1	45.2	49.3	53.3
	Unit Power (kW)	6.0	6.0	6.0	6.1	6.1	6.1

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 50. Gross cooling capacities (kW) TTA0604DA condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1673.3	1708.2	1744.8	1782.6	1820.8	1858.7
	Capacity (kW)	15.3	16.9	18.6	20.5	22.4	24.3
	Unit Power (kW)	2.8	2.8	2.9	2.9	3.0	3.0
23.9	Head Press (kPa)	1927.8	1964.3	2002.3	2041.2	2080.4	2118.9
	Capacity (kW)	14.5	16.0	17.6	19.3	21.1	23.0
	Unit Power (kW)	3.2	3.2	3.2	3.3	3.4	3.4
29.4	Head Press (kPa)	2207.1	2245.2	2284.5	2324.4	2364.3	2403.2
	Capacity (kW)	13.6	15.1	16.6	18.2	19.9	21.6
	Unit Power (kW)	3.6	3.6	3.7	3.7	3.8	3.8
35	Head Press (kPa)	2512.5	2551.9	2592.3	2633.0	2673.3	2712.3
	Capacity (kW)	12.7	14.1	15.5	17.0	18.6	20.1
	Unit Power (kW)	4.1	4.1	4.2	4.2	4.3	4.3
40.6	Head Press (kPa)	2844.5	2885.1	2926.3	2967.4	3007.8	3046.3
	Capacity (kW)	11.8	13.0	14.4	15.8	17.2	18.7
	Unit Power (kW)	4.6	4.7	4.7	4.7	4.8	4.8
46.1	Head Press (kPa)	3203.7	3244.8	3286.2	3327.2	3366.9	3404.3
	Capacity (kW)	10.8	12.0	13.2	14.5	15.9	17.2
	Unit Power (kW)	5.2	5.3	5.3	5.4	5.4	5.4
51.7	Head Press (kPa)	3590.1	3630.1	3670.3	3709.8	3747.6	3782.8
	Capacity (kW)	9.7	10.9	12.0	13.2	14.4	15.6
	Unit Power (kW)	6.0	6.0	6.0	6.1	6.1	6.1

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 51. Gross cooling capacities (MBH) TTA0604DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	262.2	268.0	273.8	279.2	284.3	288.6
	Capacity (Btuh/1000)	54.8	60.7	67.1	74.0	81.4	89.5
	Unit Power (kW)	3.1	3.2	3.2	3.2	3.2	3.2
75	Head Press (psig)	301.8	308.2	314.6	320.7	326.3	331.0
	Capacity (Btuh/1000)	51.7	57.3	63.3	69.9	76.9	84.5
	Unit Power (kW)	3.5	3.5	3.6	3.6	3.6	3.6
85	Head Press (psig)	344.8	352.0	359.1	365.9	372.1	377.4
	Capacity (Btuh/1000)	48.2	53.6	59.3	65.5	72.2	79.4
	Unit Power (kW)	4.0	4.0	4.0	4.1	4.1	4.1
95	Head Press (psig)	391.5	399.5	407.3	414.9	421.8	427.6
	Capacity (Btuh/1000)	44.5	49.6	55.1	61.0	67.3	74.2
	Unit Power (kW)	4.4	4.5	4.5	4.6	4.6	4.7
105	Head Press (psig)	442.0	450.7	459.2	467.5	475.0	481.3
	Capacity (Btuh/1000)	40.7	45.6	50.9	56.6	62.7	69.2
	Unit Power (kW)	5.0	5.0	5.1	5.2	5.2	5.2
115	Head Press (psig)	499.4	505.5	514.6	523.2	531.0	537.6
	Capacity (Btuh/1000)	36.9	41.8	46.9	52.4	58.3	64.7
	Unit Power (kW)	5.6	5.7	5.7	5.8	5.8	5.9
125	Head Press (psig)	583.6	585.4	585.2	584.0	589.0	595.5
	Capacity (Btuh/1000)	33.7	38.5	43.6	48.8	54.4	60.5
	Unit Power (kW)	6.6	6.6	6.5	6.5	6.5	6.5

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 52. Gross cooling capacities (kW) TTA0604DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1807.7	1847.9	1887.5	1925.3	1959.9	1989.5
	Capacity (kW)	16.1	17.8	19.7	21.7	23.9	26.2
	Unit Power (kW)	3.1	3.2	3.2	3.2	3.2	3.2
23.9	Head Press (kPa)	2080.7	2125.3	2169.4	2211.4	2249.8	2282.3
	Capacity (kW)	15.1	16.8	18.6	20.5	22.6	24.8
	Unit Power (kW)	3.5	3.5	3.6	3.6	3.6	3.6
29.4	Head Press (kPa)	2377.6	2427.1	2476.1	2523.0	2565.8	2602.0
	Capacity (kW)	14.1	15.7	17.4	19.2	21.2	23.3
	Unit Power (kW)	4.0	4.0	4.0	4.1	4.1	4.1
35	Head Press (kPa)	2699.6	2754.2	2808.5	2860.5	2908.2	2948.4
	Capacity (kW)	13.0	14.5	16.1	17.9	19.7	21.7
	Unit Power (kW)	4.4	4.5	4.5	4.6	4.6	4.7
40.6	Head Press (kPa)	3047.4	3107.1	3166.3	3223.0	3274.7	3318.5
	Capacity (kW)	11.9	13.4	14.9	16.6	18.4	20.3
	Unit Power (kW)	5.0	5.0	5.1	5.2	5.2	5.2
46.1	Head Press (kPa)	3443.5	3485.3	3547.8	3607.2	3661.2	3706.6
	Capacity (kW)	10.8	12.2	13.7	15.4	17.1	19.0
	Unit Power (kW)	5.6	5.7	5.7	5.8	5.8	5.9
51.7	Head Press (kPa)	4023.6	4036.2	4034.7	4026.3	4060.7	4105.8
	Capacity (kW)	9.9	11.3	12.8	14.3	16.0	17.7
	Unit Power (kW)	6.6	6.6	6.5	6.5	6.5	6.5

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 53. Gross cooling capacities (MBH) TTA0764DA condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	260.6	267.6	274.9	282.4	290.1	297.8
	Capacity (Btuh/1000)	66.8	73.7	81.1	89.0	97.3	105.9
	Unit Power (kW)	3.9	4.0	4.0	4.0	4.0	4.0
75	Head Press (psig)	298.4	305.7	313.2	321.0	328.8	336.5
	Capacity (Btuh/1000)	63.2	69.7	76.8	84.2	91.9	99.9
	Unit Power (kW)	4.5	4.5	4.5	4.6	4.6	4.6
85	Head Press (psig)	339.9	347.4	355.2	363.1	371.0	378.6
	Capacity (Btuh/1000)	59.4	65.6	72.2	79.1	86.4	93.8
	Unit Power (kW)	5.1	5.1	5.2	5.2	5.2	5.2
95	Head Press (psig)	385.3	393.0	400.9	408.9	416.8	424.3
	Capacity (Btuh/1000)	55.5	61.3	67.5	74.0	80.8	87.6
	Unit Power (kW)	5.8	5.8	5.8	5.9	5.9	5.9
105	Head Press (psig)	436.1	442.3	450.3	458.3	466.1	473.4
	Capacity (Btuh/1000)	51.4	56.9	62.7	68.7	75.0	81.3
	Unit Power (kW)	6.6	6.6	6.6	6.7	6.7	6.7
115	Head Press (psig)	491.5	496.4	503.3	511.1	518.6	525.6
	Capacity (Btuh/1000)	47.3	52.4	57.8	63.4	69.1	74.9
	Unit Power (kW)	7.5	7.5	7.5	7.5	7.5	7.5
125	Head Press (psig)	551.5	555.7	560.2	566.5	573.5	579.9
	Capacity (Btuh/1000)	43.1	47.9	52.7	57.8	62.9	68.0
	Unit Power (kW)	8.6	8.5	8.5	8.5	8.5	8.4

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 54. Gross cooling capacities (kW) TTA0764DA condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1796.8	1844.7	1895.1	1947.3	2000.4	2053.0
	Capacity (kW)	19.6	21.6	23.8	26.1	28.5	31.0
	Unit Power (kW)	3.9	4.0	4.0	4.0	4.0	4.0
23.9	Head Press (kPa)	2057.7	2107.5	2159.6	2213.1	2267.0	2320.0
	Capacity (kW)	18.5	20.4	22.5	24.7	26.9	29.3
	Unit Power (kW)	4.5	4.5	4.5	4.6	4.6	4.6
29.4	Head Press (kPa)	2343.8	2395.5	2449.0	2503.5	2557.9	2610.7
	Capacity (kW)	17.4	19.2	21.2	23.2	25.3	27.5
	Unit Power (kW)	5.1	5.1	5.2	5.2	5.2	5.2
35	Head Press (kPa)	2656.4	2709.5	2764.0	2819.2	2873.5	2925.6
	Capacity (kW)	16.3	18.0	19.8	21.7	23.7	25.7
	Unit Power (kW)	5.8	5.8	5.8	5.9	5.9	5.9
40.6	Head Press (kPa)	3006.8	3049.8	3105.0	3159.9	3213.4	3264.2
	Capacity (kW)	15.1	16.7	18.4	20.1	22.0	23.8
	Unit Power (kW)	6.6	6.6	6.6	6.7	6.7	6.7
46.1	Head Press (kPa)	3389.1	3422.3	3470.0	3523.7	3575.4	3623.6
	Capacity (kW)	13.9	15.4	16.9	18.6	20.3	21.9
	Unit Power (kW)	7.5	7.5	7.5	7.5	7.5	7.5
51.7	Head Press (kPa)	3802.8	3831.6	3862.2	3905.8	3953.9	3997.9
	Capacity (kW)	12.6	14.0	15.5	16.9	18.4	19.9
	Unit Power (kW)	8.6	8.5	8.5	8.5	8.5	8.4

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 55. Gross cooling capacities (MBH) TTA0764DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	263.5	267.2	270.4	274.9	281.9	279.4
	Capacity (Btuh/1000)	64.3	71.6	79.3	87.4	95.9	102.9
	Unit Power (kW)	3.9	3.9	3.9	3.9	3.9	3.9
75	Head Press (psig)	303.0	306.8	310.1	313.5	313.2	317.5
	Capacity (Btuh/1000)	60.6	67.5	74.8	82.5	89.7	96.9
	Unit Power (kW)	4.4	4.4	4.4	4.4	4.3	4.3
85	Head Press (psig)	346.1	350.1	353.4	356.2	354.8	359.1
	Capacity (Btuh/1000)	56.5	63.1	70.1	77.3	84.0	90.8
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.8	4.8
95	Head Press (psig)	376.9	397.4	400.9	403.4	400.1	404.3
	Capacity (Btuh/1000)	52.4	58.5	65.2	72.0	78.2	84.6
	Unit Power (kW)	5.4	5.6	5.6	5.5	5.4	5.4
105	Head Press (psig)	427.3	431.2	452.2	454.7	449.0	453.2
	Capacity (Btuh/1000)	48.0	53.9	60.1	66.7	72.4	78.3
	Unit Power (kW)	6.1	6.1	6.3	6.3	6.1	6.1
115	Head Press (psig)	481.9	485.8	507.1	496.3	501.6	505.7
	Capacity (Btuh/1000)	43.6	49.2	55.2	60.8	66.6	72.0
	Unit Power (kW)	7.0	6.9	7.2	6.9	6.9	6.9
125	Head Press (psig)	540.5	544.3	547.7	552.2	557.3	561.2
	Capacity (Btuh/1000)	39.2	44.5	49.9	55.2	60.6	65.4
	Unit Power (kW)	8.0	7.9	7.9	7.8	7.8	7.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 56. Gross cooling capacities (kW) TTA0764DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1817.0	1842.0	1864.3	1895.6	1944.0	1926.4
	Capacity (kW)	18.8	21.0	23.2	25.6	28.1	30.2
	Unit Power (kW)	3.9	3.9	3.9	3.9	3.9	3.9
23.9	Head Press (kPa)	2089.2	2115.6	2137.9	2161.2	2159.6	2189.3
	Capacity (kW)	17.7	19.8	21.9	24.2	26.3	28.4
	Unit Power (kW)	4.4	4.4	4.4	4.4	4.3	4.3
29.4	Head Press (kPa)	2386.5	2414.1	2436.9	2455.8	2446.4	2476.1
	Capacity (kW)	16.6	18.5	20.5	22.7	24.6	26.6
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.8	4.8
35	Head Press (kPa)	2598.9	2740.3	2763.9	2781.6	2758.3	2787.7
	Capacity (kW)	15.4	17.1	19.1	21.1	22.9	24.8
	Unit Power (kW)	5.4	5.6	5.6	5.5	5.4	5.4
40.6	Head Press (kPa)	2946.2	2973.0	3117.5	3134.7	3096.0	3124.9
	Capacity (kW)	14.1	15.8	17.6	19.5	21.2	22.9
	Unit Power (kW)	6.1	6.1	6.3	6.3	6.1	6.1
46.1	Head Press (kPa)	3322.5	3349.6	3496.6	3422.1	3458.5	3486.7
	Capacity (kW)	12.8	14.4	16.2	17.8	19.5	21.1
	Unit Power (kW)	7.0	6.9	7.2	6.9	6.9	6.9
51.7	Head Press (kPa)	3726.5	3753.1	3776.2	3807.4	3842.6	3869.1
	Capacity (kW)	11.5	13.0	14.6	16.2	17.7	19.2
	Unit Power (kW)	8.0	7.9	7.9	7.8	7.8	7.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 57. Gross cooling capacities (MBH) TTA1014DA condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	273.4	274.8	275.6	276.0	281.0	285.5
	Capacity (Btuh/1000)	86.0	94.8	104.3	114.3	124.8	135.6
	Unit Power (kW)	5.5	5.5	5.5	5.5	5.6	5.6
75	Head Press (psig)	315.1	315.7	315.9	315.5	319.4	323.3
	Capacity (Btuh/1000)	81.5	90.0	99.0	108.4	118.2	128.3
	Unit Power (kW)	6.1	6.1	6.1	6.1	6.1	6.1
85	Head Press (psig)	361.5	361.2	360.3	358.9	361.5	364.8
	Capacity (Btuh/1000)	76.8	84.8	93.4	102.3	111.5	120.7
	Unit Power (kW)	6.8	6.8	6.7	6.7	6.7	6.7
95	Head Press (psig)	413.2	411.5	409.2	406.5	407.3	409.8
	Capacity (Btuh/1000)	71.7	79.4	87.6	96.0	104.5	113.0
	Unit Power (kW)	7.5	7.5	7.4	7.4	7.4	7.4
105	Head Press (psig)	470.5	466.7	462.6	458.3	456.7	458.3
	Capacity (Btuh/1000)	66.5	73.9	81.6	89.6	97.4	105.1
	Unit Power (kW)	8.4	8.3	8.2	8.2	8.1	8.1
115	Head Press (psig)	532.9	526.5	520.2	514.1	509.5	510.0
	Capacity (Btuh/1000)	61.6	68.5	75.8	83.1	90.2	97.0
	Unit Power (kW)	9.4	9.3	9.1	9.0	8.9	8.9
125	Head Press (psig)	599.3	590.2	581.6	573.4	565.7	564.2
	Capacity (Btuh/1000)	57.3	63.6	70.2	76.7	82.8	88.4
	Unit Power (kW)	10.4	10.2	10.1	9.9	9.8	9.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 58. Gross cooling capacities (kW) TTA1014DA condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1885.1	1894.4	1900.4	1903.2	1937.2	1968.2
	Capacity (kW)	25.2	27.8	30.6	33.5	36.6	39.7
	Unit Power (kW)	5.5	5.5	5.5	5.5	5.6	5.6
23.9	Head Press (kPa)	2172.5	2176.9	2177.7	2175.1	2202.0	2229.3
	Capacity (kW)	23.9	26.4	29.0	31.8	34.7	37.6
	Unit Power (kW)	6.1	6.1	6.1	6.1	6.1	6.1
29.4	Head Press (kPa)	2492.8	2490.3	2484.2	2474.7	2492.1	2514.9
	Capacity (kW)	22.5	24.9	27.4	30.0	32.7	35.4
	Unit Power (kW)	6.8	6.8	6.7	6.7	6.7	6.7
35	Head Press (kPa)	2849.2	2836.9	2821.3	2803.0	2807.9	2825.3
	Capacity (kW)	21.0	23.3	25.7	28.1	30.6	33.1
	Unit Power (kW)	7.5	7.5	7.4	7.4	7.4	7.4
40.6	Head Press (kPa)	3243.9	3217.5	3189.5	3160.2	3148.9	3159.9
	Capacity (kW)	19.5	21.6	23.9	26.2	28.6	30.8
	Unit Power (kW)	8.4	8.3	8.2	8.2	8.1	8.1
46.1	Head Press (kPa)	3674.5	3630.4	3587.0	3544.8	3512.7	3516.6
	Capacity (kW)	18.1	20.1	22.2	24.4	26.4	28.4
	Unit Power (kW)	9.4	9.3	9.1	9.0	8.9	8.9
51.7	Head Press (kPa)	4132.2	4069.3	4009.8	3953.5	3900.7	3890.3
	Capacity (kW)	16.8	18.6	20.6	22.5	24.3	25.9
	Unit Power (kW)	10.4	10.2	10.1	9.9	9.8	9.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 59. Gross cooling capacities (MBH) TTA1014DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	255.5	260.7	265.8	270.8	275.7	280.1
	Capacity (Btuh/1000)	85.6	94.3	103.4	113.0	123.1	133.5
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.1	5.2
75	Head Press (psig)	292.0	297.2	302.4	307.5	312.3	316.6
	Capacity (Btuh/1000)	79.9	88.0	96.5	105.4	114.7	124.5
	Unit Power (kW)	5.5	5.6	5.6	5.6	5.7	5.7
85	Head Press (psig)	332.3	337.7	343.0	348.1	352.8	357.0
	Capacity (Btuh/1000)	74.6	82.2	90.2	98.6	107.4	116.5
	Unit Power (kW)	6.2	6.3	6.3	6.3	6.4	6.4
95	Head Press (psig)	376.4	381.9	387.4	392.5	397.2	401.4
	Capacity (Btuh/1000)	69.2	76.4	84.0	92.0	100.5	109.0
	Unit Power (kW)	7.0	7.1	7.1	7.1	7.1	7.1
105	Head Press (psig)	423.7	429.5	435.1	440.3	445.0	449.2
	Capacity (Btuh/1000)	63.4	70.4	77.6	85.5	93.5	101.4
	Unit Power (kW)	7.9	7.9	8.0	8.0	8.0	8.0
115	Head Press (psig)	473.9	480.0	485.8	491.1	495.9	500.2
	Capacity (Btuh/1000)	56.9	63.7	70.9	78.5	86.1	93.5
	Unit Power (kW)	8.8	8.8	8.8	8.9	8.9	8.9
125	Head Press (psig)	527.1	533.2	539.0	544.4	549.3	553.6
	Capacity (Btuh/1000)	49.6	56.3	63.4	70.7	77.9	84.7
	Unit Power (kW)	9.6	9.7	9.7	9.8	9.8	9.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 60. Gross cooling capacities (kW) TTA1014DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1761.7	1797.1	1832.6	1867.4	1900.7	1931.4
	Capacity (kW)	25.1	27.6	30.3	33.1	36.1	39.1
	Unit Power (kW)	4.9	5.0	5.0	5.1	5.1	5.2
23.9	Head Press (kPa)	2013.1	2049.1	2084.9	2119.9	2153.0	2182.7
	Capacity (kW)	23.4	25.8	28.3	30.9	33.6	36.5
	Unit Power (kW)	5.5	5.6	5.6	5.6	5.7	5.7
29.4	Head Press (kPa)	2291.5	2328.3	2364.8	2400.1	2432.7	2461.7
	Capacity (kW)	21.9	24.1	26.4	28.9	31.5	34.2
	Unit Power (kW)	6.2	6.3	6.3	6.3	6.4	6.4
35	Head Press (kPa)	2595.0	2633.3	2670.8	2706.5	2738.6	2767.2
	Capacity (kW)	20.3	22.4	24.6	27.0	29.4	31.9
	Unit Power (kW)	7.0	7.1	7.1	7.1	7.1	7.1
40.6	Head Press (kPa)	2921.1	2961.2	3000.1	3036.0	3068.4	3097.2
	Capacity (kW)	18.6	20.6	22.8	25.0	27.4	29.7
	Unit Power (kW)	7.9	7.9	8.0	8.0	8.0	8.0
46.1	Head Press (kPa)	3267.6	3309.6	3349.6	3386.1	3419.2	3448.5
	Capacity (kW)	16.7	18.7	20.8	23.0	25.2	27.4
	Unit Power (kW)	8.8	8.8	8.8	8.9	8.9	8.9
51.7	Head Press (kPa)	3634.5	3676.6	3716.5	3753.4	3787.1	3816.8
	Capacity (kW)	14.5	16.5	18.6	20.7	22.8	24.8
	Unit Power (kW)	9.6	9.7	9.7	9.8	9.8	9.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 61. Gross cooling capacities (MBH) one compressor - TTA1014DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	220.4	223.2	226.1	229.1	232.1	235.2
	Capacity (Btuh/1000)	45.0	49.8	54.9	60.4	66.3	72.5
	Unit Power (kW)	2.6	2.6	2.6	2.7	2.7	2.7
75	Head Press (psig)	254.7	257.4	260.3	263.2	266.3	269.3
	Capacity (Btuh/1000)	41.4	45.8	50.5	55.6	61.0	66.6
	Unit Power (kW)	2.9	2.9	2.9	2.9	2.9	2.9
85	Head Press (psig)	293.0	295.8	298.7	301.6	304.6	307.5
	Capacity (Btuh/1000)	38.5	42.6	46.9	51.6	56.5	61.7
	Unit Power (kW)	3.2	3.2	3.2	3.2	3.2	3.2
95	Head Press (psig)	335.6	338.4	341.3	344.2	347.2	350.1
	Capacity (Btuh/1000)	35.8	39.6	43.7	48.0	52.6	57.4
	Unit Power (kW)	3.5	3.5	3.5	3.5	3.5	3.5
105	Head Press (psig)	382.3	385.2	388.1	391.1	394.1	397.0
	Capacity (Btuh/1000)	33.0	36.7	40.5	44.6	48.9	53.3
	Unit Power (kW)	4.0	3.9	3.9	3.9	3.9	3.9
115	Head Press (psig)	433.1	436.1	439.2	442.2	445.2	448.1
	Capacity (Btuh/1000)	30.0	33.5	37.2	41.1	45.1	49.2
	Unit Power (kW)	4.4	4.4	4.4	4.4	4.4	4.4
125	Head Press (psig)	488.1	491.2	494.2	497.3	500.3	503.2
	Capacity (Btuh/1000)	26.5	29.9	33.5	37.3	41.1	44.8
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.8	4.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 62. Gross cooling capacities (kW) one compressor - TTA1014DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1519.5	1538.7	1558.7	1579.4	1600.6	1621.9
	Capacity (kW)	13.2	14.6	16.1	17.7	19.4	21.2
	Unit Power (kW)	2.6	2.6	2.6	2.7	2.7	2.7
23.9	Head Press (kPa)	1755.8	1774.8	1794.6	1815.0	1835.8	1856.6
	Capacity (kW)	12.1	13.4	14.8	16.3	17.9	19.5
	Unit Power (kW)	2.9	2.9	2.9	2.9	2.9	2.9
29.4	Head Press (kPa)	2020.4	2039.4	2059.2	2079.4	2099.9	2120.3
	Capacity (kW)	11.3	12.5	13.7	15.1	16.6	18.1
	Unit Power (kW)	3.2	3.2	3.2	3.2	3.2	3.2
35	Head Press (kPa)	2313.7	2333.1	2353.0	2373.2	2393.5	2413.7
	Capacity (kW)	10.5	11.6	12.8	14.1	15.4	16.8
	Unit Power (kW)	3.5	3.5	3.5	3.5	3.5	3.5
40.6	Head Press (kPa)	2635.9	2655.7	2676.0	2696.5	2716.9	2736.9
	Capacity (kW)	9.7	10.7	11.9	13.1	14.3	15.6
	Unit Power (kW)	4.0	3.9	3.9	3.9	3.9	3.9
46.1	Head Press (kPa)	2986.4	3007.0	3027.9	3048.8	3069.4	3089.5
	Capacity (kW)	8.8	9.8	10.9	12.0	13.2	14.4
	Unit Power (kW)	4.4	4.4	4.4	4.4	4.4	4.4
51.7	Head Press (kPa)	3365.5	3386.4	3407.7	3428.8	3449.5	3469.7
	Capacity (kW)	7.8	8.8	9.8	10.9	12.0	13.1
	Unit Power (kW)	4.9	4.9	4.9	4.9	4.8	4.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 63. Gross cooling capacities (MBH) both compressors - TTA1014DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	256.2	262.5	269.1	275.9	282.5	288.9
	Capacity (Btuh/1000)	86.8	95.6	105.0	114.9	125.3	136.1
	Unit Power (kW)	5.0	5.1	5.2	5.2	5.3	5.4
75	Head Press (psig)	292.7	299.3	306.0	312.8	319.4	325.6
	Capacity (Btuh/1000)	81.1	89.4	98.2	107.5	117.2	127.2
	Unit Power (kW)	5.6	5.7	5.8	5.8	5.9	6.0
85	Head Press (psig)	333.8	340.2	347.0	353.9	360.5	366.6
	Capacity (Btuh/1000)	75.8	83.6	91.9	100.7	109.8	119.1
	Unit Power (kW)	6.3	6.4	6.5	6.5	6.6	6.6
95	Head Press (psig)	379.2	384.9	392.0	399.0	405.7	411.7
	Capacity (Btuh/1000)	70.4	77.8	85.7	94.0	102.6	111.3
	Unit Power (kW)	7.2	7.2	7.3	7.3	7.4	7.4
105	Head Press (psig)	428.3	433.2	440.5	447.7	454.4	460.3
	Capacity (Btuh/1000)	64.5	71.7	79.3	87.2	95.4	103.5
	Unit Power (kW)	8.0	8.1	8.1	8.2	8.2	8.3
115	Head Press (psig)	480.6	485.5	491.9	499.2	506.0	511.8
	Capacity (Btuh/1000)	57.9	65.0	72.3	80.0	87.8	95.3
	Unit Power (kW)	8.9	9.0	9.0	9.1	9.1	9.1
125	Head Press (psig)	535.9	540.9	545.7	552.9	559.6	565.3
	Capacity (Btuh/1000)	50.4	57.5	64.7	72.0	79.4	86.3
	Unit Power (kW)	9.9	9.9	9.9	10.0	10.0	10.0

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 64. Gross cooling capacities (kW) both compressors - TTA1014DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1766.1	1810.1	1855.6	1902.0	1947.9	1991.8
	Capacity (kW)	25.4	28.0	30.8	33.7	36.7	39.9
	Unit Power (kW)	5.0	5.1	5.2	5.2	5.3	5.4
23.9	Head Press (kPa)	2018.4	2063.4	2109.7	2156.4	2202.1	2245.1
	Capacity (kW)	23.8	26.2	28.8	31.5	34.4	37.3
	Unit Power (kW)	5.6	5.7	5.8	5.8	5.9	6.0
29.4	Head Press (kPa)	2301.3	2345.3	2392.8	2440.0	2485.6	2527.8
	Capacity (kW)	22.2	24.5	26.9	29.5	32.2	34.9
	Unit Power (kW)	6.3	6.4	6.5	6.5	6.6	6.6
35	Head Press (kPa)	2614.6	2654.0	2703.0	2751.2	2796.9	2838.3
	Capacity (kW)	20.6	22.8	25.1	27.6	30.1	32.6
	Unit Power (kW)	7.2	7.2	7.3	7.3	7.4	7.4
40.6	Head Press (kPa)	2953.2	2986.5	3037.3	3086.7	3132.7	3173.6
	Capacity (kW)	18.9	21.0	23.2	25.6	28.0	30.3
	Unit Power (kW)	8.0	8.1	8.1	8.2	8.2	8.3
46.1	Head Press (kPa)	3313.9	3347.6	3391.7	3442.2	3488.5	3528.8
	Capacity (kW)	17.0	19.0	21.2	23.4	25.7	27.9
	Unit Power (kW)	8.9	9.0	9.0	9.1	9.1	9.1
51.7	Head Press (kPa)	3695.1	3729.1	3762.5	3812.3	3858.2	3897.4
	Capacity (kW)	14.8	16.9	19.0	21.1	23.3	25.3
	Unit Power (kW)	9.9	9.9	9.9	10.0	10.0	10.0

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 65. Gross cooling capacities (MBH) TTA1264DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	275.4	283.4	291.8	300.5	309.5	318.4
	Capacity (Btuh/1000)	115.4	127.1	139.9	153.3	167.2	181.4
	Unit Power (kW)	7.4	7.5	7.5	7.6	7.6	7.7
75	Head Press (psig)	315.0	323.3	332.1	341.2	350.5	359.6
	Capacity (Btuh/1000)	108.7	119.9	132.0	144.7	157.7	170.8
	Unit Power (kW)	8.5	8.5	8.6	8.6	8.7	8.7
85	Head Press (psig)	358.5	366.7	375.8	385.2	394.6	403.9
	Capacity (Btuh/1000)	101.5	112.3	123.7	135.5	147.7	159.9
	Unit Power (kW)	9.7	9.7	9.8	9.9	9.9	10.0
95	Head Press (psig)	408.0	413.6	422.8	432.4	441.9	451.2
	Capacity (Btuh/1000)	94.1	104.2	114.9	126.0	137.3	148.7
	Unit Power (kW)	11.1	11.1	11.2	11.3	11.3	11.3
105	Head Press (psig)	463.2	467.7	473.1	482.5	492.0	501.1
	Capacity (Btuh/1000)	86.2	95.9	105.8	116.2	126.8	137.2
	Unit Power (kW)	12.7	12.7	12.7	12.8	12.8	12.9
115	Head Press (psig)	524.3	531.7	533.0	537.0	545.1	553.4
	Capacity (Btuh/1000)	78.1	87.2	96.6	106.2	115.8	125.4
	Unit Power (kW)	14.6	14.6	14.6	14.5	14.5	14.5
125	Head Press (psig)	584.8	592.1	599.5	604.2	604.4	607.7
	Capacity (Btuh/1000)	70.0	78.5	87.1	95.9	104.5	112.8
	Unit Power (kW)	16.6	16.6	16.7	16.6	16.5	16.3

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 66. Gross cooling capacities (kW) TTA1264DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1899.1	1954.0	2011.8	2072.2	2134.0	2195.5
	Capacity (kW)	33.8	37.2	41.0	44.9	49.0	53.2
	Unit Power (kW)	7.4	7.5	7.5	7.6	7.6	7.7
23.9	Head Press (kPa)	2171.6	2229.3	2289.8	2352.6	2416.3	2479.1
	Capacity (kW)	31.8	35.1	38.7	42.4	46.2	50.1
	Unit Power (kW)	8.5	8.5	8.6	8.6	8.7	8.7
29.4	Head Press (kPa)	2471.7	2528.0	2591.0	2655.8	2721.0	2784.5
	Capacity (kW)	29.7	32.9	36.3	39.7	43.3	46.9
	Unit Power (kW)	9.7	9.7	9.8	9.9	9.9	10.0
35	Head Press (kPa)	2812.8	2851.8	2914.9	2981.1	3047.1	3110.6
	Capacity (kW)	27.6	30.6	33.7	36.9	40.2	43.6
	Unit Power (kW)	11.1	11.1	11.2	11.3	11.3	11.3
40.6	Head Press (kPa)	3193.3	3224.6	3261.7	3327.1	3392.5	3454.8
	Capacity (kW)	25.3	28.1	31.0	34.1	37.1	40.2
	Unit Power (kW)	12.7	12.7	12.7	12.8	12.8	12.9
46.1	Head Press (kPa)	3615.2	3665.7	3675.2	3702.4	3758.0	3815.9
	Capacity (kW)	22.9	25.6	28.3	31.1	34.0	36.7
	Unit Power (kW)	14.6	14.6	14.6	14.5	14.5	14.5
51.7	Head Press (kPa)	4031.8	4082.3	4133.7	4165.5	4167.0	4189.7
	Capacity (kW)	20.5	23.0	25.5	28.1	30.6	33.1
	Unit Power (kW)	16.6	16.6	16.7	16.6	16.5	16.3

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 67. Gross cooling capacities (MBH) TTA1564DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	239.0	243.7	248.7	253.9	259.3	264.5
	Capacity (Btuh/1000)	135.4	149.7	165.2	181.8	199.5	218.2
	Unit Power (kW)	8.1	8.0	8.0	8.0	8.0	7.9
75	Head Press (psig)	275.4	280.4	285.5	290.9	296.3	301.6
	Capacity (Btuh/1000)	128.2	141.8	156.5	172.2	188.9	206.4
	Unit Power (kW)	9.1	9.1	9.1	9.0	9.0	8.9
85	Head Press (psig)	315.6	320.7	326.0	331.5	336.9	342.2
	Capacity (Btuh/1000)	120.8	133.6	147.5	162.3	178.0	194.4
	Unit Power (kW)	10.2	10.2	10.2	10.2	10.2	10.1
95	Head Press (psig)	359.7	365.0	370.4	375.9	381.3	386.5
	Capacity (Btuh/1000)	113.0	125.1	138.1	152.0	166.7	182.0
	Unit Power (kW)	11.5	11.5	11.5	11.5	11.5	11.4
105	Head Press (psig)	407.8	413.1	418.6	424.1	429.5	434.6
	Capacity (Btuh/1000)	104.8	116.2	128.4	141.4	155.1	169.2
	Unit Power (kW)	13.0	13.0	13.0	13.0	13.0	12.9
115	Head Press (psig)	460.0	465.3	470.8	476.2	481.3	486.2
	Capacity (Btuh/1000)	96.4	107.1	118.5	130.6	143.3	156.2
	Unit Power (kW)	14.7	14.7	14.7	14.7	14.6	14.5
125	Head Press (psig)	517.8	522.0	527.0	531.9	536.7	541.0
	Capacity (Btuh/1000)	87.6	97.6	108.2	119.4	130.9	142.4
	Unit Power (kW)	16.7	16.6	16.6	16.5	16.5	16.3

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 68. Gross cooling capacities (kW) TTA1564DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1647.8	1680.4	1714.9	1750.9	1787.5	1824.0
	Capacity (kW)	39.7	43.9	48.4	53.3	58.5	63.9
	Unit Power (kW)	8.1	8.0	8.0	8.0	8.0	7.9
23.9	Head Press (kPa)	1899.0	1933.0	1968.6	2005.5	2042.7	2079.3
	Capacity (kW)	37.6	41.6	45.9	50.5	55.4	60.5
	Unit Power (kW)	9.1	9.1	9.1	9.0	9.0	8.9
29.4	Head Press (kPa)	2176.1	2211.3	2248.0	2285.4	2322.9	2359.4
	Capacity (kW)	35.4	39.2	43.2	47.6	52.2	57.0
	Unit Power (kW)	10.2	10.2	10.2	10.2	10.2	10.1
35	Head Press (kPa)	2480.0	2516.3	2553.7	2591.6	2629.1	2665.0
	Capacity (kW)	33.1	36.7	40.5	44.5	48.8	53.3
	Unit Power (kW)	11.5	11.5	11.5	11.5	11.5	11.4
40.6	Head Press (kPa)	2811.6	2848.5	2886.4	2924.3	2961.2	2996.2
	Capacity (kW)	30.7	34.1	37.6	41.5	45.5	49.6
	Unit Power (kW)	13.0	13.0	13.0	13.0	13.0	12.9
46.1	Head Press (kPa)	3171.7	3208.5	3245.9	3283.0	3318.7	3352.0
	Capacity (kW)	28.2	31.4	34.7	38.3	42.0	45.8
	Unit Power (kW)	14.7	14.7	14.7	14.7	14.6	14.5
51.7	Head Press (kPa)	3570.1	3599.0	3633.4	3667.5	3700.3	3730.4
	Capacity (kW)	25.7	28.6	31.7	35.0	38.4	41.7
	Unit Power (kW)	16.7	16.6	16.6	16.5	16.5	16.3

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 69. Gross cooling capacities (MBH) one compressor - TTA1564DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	213.8	215.9	218.2	220.7	223.3	226.1
	Capacity (Btuh/1000)	67.2	74.3	82.0	90.4	99.4	109.1
	Unit Power (kW)	4.2	4.2	4.1	4.1	4.0	3.9
75	Head Press (psig)	248.7	250.9	253.3	255.9	258.7	261.6
	Capacity (Btuh/1000)	63.5	70.3	77.7	85.6	94.1	103.3
	Unit Power (kW)	4.7	4.7	4.6	4.6	4.5	4.4
85	Head Press (psig)	287.5	289.8	292.3	295.0	297.8	300.8
	Capacity (Btuh/1000)	59.9	66.3	73.2	80.7	88.8	97.6
	Unit Power (kW)	5.2	5.2	5.1	5.1	5.0	5.0
95	Head Press (psig)	330.4	332.7	335.3	338.0	340.9	343.9
	Capacity (Btuh/1000)	56.1	62.1	68.7	75.7	83.4	91.6
	Unit Power (kW)	5.8	5.8	5.8	5.7	5.6	5.6
105	Head Press (psig)	377.6	380.0	382.6	385.4	388.3	391.2
	Capacity (Btuh/1000)	52.1	57.8	63.9	70.6	77.8	85.5
	Unit Power (kW)	6.5	6.5	6.4	6.4	6.3	6.3
115	Head Press (psig)	429.5	431.8	434.3	437.1	439.9	442.9
	Capacity (Btuh/1000)	47.9	53.3	59.1	65.3	72.1	79.3
	Unit Power (kW)	7.4	7.3	7.2	7.2	7.1	7.0
125	Head Press (psig)	485.3	488.8	490.9	493.4	496.1	498.8
	Capacity (Btuh/1000)	43.6	48.5	54.0	59.8	66.1	72.7
	Unit Power (kW)	8.3	8.2	8.2	8.1	8.0	7.9

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 70. Gross cooling capacities (kW) one compressor - TTA1564DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1474.0	1488.5	1504.4	1521.5	1539.8	1559.2
	Capacity (kW)	19.7	21.8	24.0	26.5	29.1	32.0
	Unit Power (kW)	4.2	4.2	4.1	4.1	4.0	3.9
23.9	Head Press (kPa)	1714.8	1730.1	1746.7	1764.6	1783.6	1803.6
	Capacity (kW)	18.6	20.6	22.8	25.1	27.6	30.3
	Unit Power (kW)	4.7	4.7	4.6	4.6	4.5	4.4
29.4	Head Press (kPa)	1982.2	1998.1	2015.3	2033.8	2053.4	2073.8
	Capacity (kW)	17.5	19.4	21.5	23.7	26.0	28.6
	Unit Power (kW)	5.2	5.2	5.1	5.1	5.0	5.0
35	Head Press (kPa)	2277.8	2294.1	2311.8	2330.8	2350.7	2371.4
	Capacity (kW)	16.4	18.2	20.1	22.2	24.4	26.9
	Unit Power (kW)	5.8	5.8	5.8	5.7	5.6	5.6
40.6	Head Press (kPa)	2603.5	2619.9	2637.8	2656.9	2676.9	2697.5
	Capacity (kW)	15.3	16.9	18.7	20.7	22.8	25.1
	Unit Power (kW)	6.5	6.5	6.4	6.4	6.3	6.3
46.1	Head Press (kPa)	2961.3	2977.0	2994.7	3013.5	3033.2	3053.4
	Capacity (kW)	14.0	15.6	17.3	19.1	21.1	23.2
	Unit Power (kW)	7.4	7.3	7.2	7.2	7.1	7.0
51.7	Head Press (kPa)	3345.7	3369.9	3384.7	3401.7	3420.2	3439.0
	Capacity (kW)	12.8	14.2	15.8	17.5	19.4	21.3
	Unit Power (kW)	8.3	8.2	8.2	8.1	8.0	7.9

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 71. Gross cooling capacities (MBH) both compressors - TTA1564DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	241.0	244.6	249.8	255.5	261.5	267.7
	Capacity (Btuh/1000)	133.4	147.5	162.7	179.2	196.8	215.6
	Unit Power (kW)	8.0	7.9	7.9	7.9	7.9	7.8
75	Head Press (psig)	278.5	282.2	287.1	293.0	299.2	305.5
	Capacity (Btuh/1000)	126.3	139.7	154.2	169.8	186.4	204.2
	Unit Power (kW)	9.0	9.0	9.0	8.9	8.9	8.9
85	Head Press (psig)	320.0	323.8	328.0	334.2	340.5	346.9
	Capacity (Btuh/1000)	119.0	131.7	145.3	160.1	175.8	192.5
	Unit Power (kW)	10.2	10.2	10.1	10.1	10.1	10.1
95	Head Press (psig)	365.7	369.5	373.3	379.2	385.6	392.0
	Capacity (Btuh/1000)	111.3	123.3	136.2	150.0	164.8	180.4
	Unit Power (kW)	11.6	11.5	11.5	11.5	11.4	11.4
105	Head Press (psig)	416.0	419.7	423.4	428.1	434.6	440.9
	Capacity (Btuh/1000)	103.2	114.5	126.7	139.7	153.5	168.1
	Unit Power (kW)	13.1	13.1	13.0	13.0	12.9	12.9
115	Head Press (psig)	471.3	474.6	477.9	481.2	487.2	493.3
	Capacity (Btuh/1000)	94.9	105.6	117.0	129.1	142.0	155.6
	Unit Power (kW)	14.9	14.9	14.8	14.7	14.6	14.6
125	Head Press (psig)	534.2	535.5	537.6	540.0	543.3	548.9
	Capacity (Btuh/1000)	86.4	96.5	107.2	118.5	130.2	142.5
	Unit Power (kW)	17.1	16.9	16.8	16.6	16.5	16.4

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 72. Gross cooling capacities (kW) both compressors - TTA1564DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1661.9	1686.8	1722.5	1761.8	1803.1	1845.9
	Capacity (kW)	39.1	43.2	47.7	52.5	57.7	63.2
	Unit Power (kW)	8.0	7.9	7.9	7.9	7.9	7.8
23.9	Head Press (kPa)	1920.2	1945.7	1979.2	2020.0	2062.6	2106.2
	Capacity (kW)	37.0	40.9	45.2	49.8	54.6	59.8
	Unit Power (kW)	9.0	9.0	9.0	8.9	8.9	8.9
29.4	Head Press (kPa)	2206.3	2232.2	2261.8	2304.0	2347.6	2391.7
	Capacity (kW)	34.9	38.6	42.6	46.9	51.5	56.4
	Unit Power (kW)	10.2	10.2	10.1	10.1	10.1	10.1
35	Head Press (kPa)	2521.7	2547.7	2574.0	2614.5	2658.8	2703.0
	Capacity (kW)	32.6	36.1	39.9	44.0	48.3	52.9
	Unit Power (kW)	11.6	11.5	11.5	11.5	11.4	11.4
40.6	Head Press (kPa)	2868.1	2893.6	2919.1	2951.8	2996.3	3040.0
	Capacity (kW)	30.2	33.6	37.1	40.9	45.0	49.3
	Unit Power (kW)	13.1	13.1	13.0	13.0	12.9	12.9
46.1	Head Press (kPa)	3249.8	3272.0	3294.9	3318.1	3359.2	3401.3
	Capacity (kW)	27.8	30.9	34.3	37.8	41.6	45.6
	Unit Power (kW)	14.9	14.9	14.8	14.7	14.6	14.6
51.7	Head Press (kPa)	3683.5	3692.1	3706.5	3723.4	3745.8	3784.4
	Capacity (kW)	25.3	28.3	31.4	34.7	38.2	41.8
	Unit Power (kW)	17.1	16.9	16.8	16.6	16.5	16.4

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 73. Gross cooling capacities (MBH) TTA2014DD condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	267.6	274.1	280.2	285.3	288.8	290.5
	Capacity (Btuh/1000)	197.5	217.1	237.8	259.4	280.7	299.2
	Unit Power (kW)	12.0	12.2	12.4	12.7	12.9	13.0
75	Head Press (psig)	306.0	312.5	318.5	323.3	326.4	327.6
	Capacity (Btuh/1000)	187.5	205.9	225.4	245.5	264.9	280.8
	Unit Power (kW)	13.2	13.4	13.6	13.8	14.0	14.1
85	Head Press (psig)	347.9	354.5	360.3	364.8	367.4	368.1
	Capacity (Btuh/1000)	176.6	194.1	212.3	231.0	248.6	262.1
	Unit Power (kW)	14.5	14.7	14.9	15.1	15.3	15.4
95	Head Press (psig)	393.4	400.0	405.7	409.8	412.0	412.3
	Capacity (Btuh/1000)	165.1	181.7	198.8	216.0	231.9	243.2
	Unit Power (kW)	16.1	16.2	16.4	16.6	16.7	16.8
105	Head Press (psig)	442.5	449.0	454.5	458.2	459.8	461.0
	Capacity (Btuh/1000)	153.2	168.9	184.8	200.7	214.8	224.9
	Unit Power (kW)	17.9	18.0	18.1	18.3	18.4	18.4
115	Head Press (psig)	495.1	501.3	506.4	509.7	510.8	512.4
	Capacity (Btuh/1000)	141.2	155.9	170.7	185.2	197.4	205.9
	Unit Power (kW)	19.9	20.0	20.0	20.2	20.2	20.2
125	Head Press (psig)	553.2	556.3	560.9	563.5	563.9	565.3
	Capacity (Btuh/1000)	129.3	142.8	156.3	168.8	179.0	185.8
	Unit Power (kW)	22.1	22.1	22.1	22.2	22.2	22.2

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 74. Gross cooling capacities (kW) TTA2014DD condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1845.3	1890.0	1931.9	1967.1	1991.4	2003.0
	Capacity (kW)	57.9	63.6	69.7	76.0	82.3	87.7
	Unit Power (kW)	12.0	12.2	12.4	12.7	12.9	13.0
23.9	Head Press (kPa)	2109.8	2154.8	2195.9	2229.2	2250.5	2258.5
	Capacity (kW)	54.9	60.3	66.1	71.9	77.6	82.3
	Unit Power (kW)	13.2	13.4	13.6	13.8	14.0	14.1
29.4	Head Press (kPa)	2398.7	2444.0	2484.2	2515.3	2533.5	2537.7
	Capacity (kW)	51.8	56.9	62.2	67.7	72.9	76.8
	Unit Power (kW)	14.5	14.7	14.9	15.1	15.3	15.4
35	Head Press (kPa)	2712.5	2757.8	2796.9	2825.5	2840.3	2843.0
	Capacity (kW)	48.4	53.2	58.2	63.3	68.0	71.3
	Unit Power (kW)	16.1	16.2	16.4	16.6	16.7	16.8
40.6	Head Press (kPa)	3050.8	3096.0	3133.4	3159.1	3170.5	3178.6
	Capacity (kW)	44.9	49.5	54.2	58.8	63.0	65.9
	Unit Power (kW)	17.9	18.0	18.1	18.3	18.4	18.4
46.1	Head Press (kPa)	3413.5	3456.6	3491.6	3513.9	3521.5	3532.7
	Capacity (kW)	41.4	45.7	50.0	54.3	57.8	60.4
	Unit Power (kW)	19.9	20.0	20.0	20.2	20.2	20.2
51.7	Head Press (kPa)	3814.3	3835.8	3867.3	3885.4	3888.1	3897.7
	Capacity (kW)	37.9	41.9	45.8	49.5	52.5	54.4
	Unit Power (kW)	22.1	22.1	22.1	22.2	22.2	22.2

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 75. Gross cooling capacities (MBH) one compressor - TTA2014DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	226.6	230.0	233.4	236.8	239.8	242.1
	Capacity (Btuh/1000)	102.0	112.9	124.5	136.7	149.6	162.7
	Unit Power (kW)	6.4	6.5	6.6	6.6	6.7	6.7
75	Head Press (psig)	262.6	266.2	269.7	273.2	276.2	278.4
	Capacity (Btuh/1000)	97.3	107.7	118.8	130.5	142.7	155.1
	Unit Power (kW)	6.9	7.0	7.0	7.1	7.2	7.3
85	Head Press (psig)	302.3	306.0	309.6	313.1	316.0	318.1
	Capacity (Btuh/1000)	92.1	102.0	112.6	123.6	135.1	146.6
	Unit Power (kW)	7.4	7.5	7.6	7.7	7.8	7.9
95	Head Press (psig)	345.8	349.6	353.3	356.7	359.5	361.3
	Capacity (Btuh/1000)	86.4	95.7	105.6	116.0	126.8	137.3
	Unit Power (kW)	8.1	8.2	8.3	8.4	8.5	8.5
105	Head Press (psig)	393.4	397.2	400.8	404.1	406.6	408.2
	Capacity (Btuh/1000)	80.1	88.9	98.2	107.8	117.7	127.2
	Unit Power (kW)	8.9	9.0	9.1	9.2	9.2	9.3
115	Head Press (psig)	445.2	448.9	452.3	455.3	457.6	458.8
	Capacity (Btuh/1000)	73.6	81.7	90.3	99.2	108.1	116.4
	Unit Power (kW)	9.7	9.8	9.9	10.0	10.1	10.1
125	Head Press (psig)	501.4	504.8	507.9	510.5	512.3	513.1
	Capacity (Btuh/1000)	66.8	74.3	82.1	90.3	98.2	105.0
	Unit Power (kW)	10.7	10.8	10.9	10.9	11.0	11.1

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 76. Gross cooling capacities (kW) one compressor - TTA2014DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1562.2	1585.6	1609.3	1632.5	1653.3	1669.3
	Capacity (kW)	29.9	33.1	36.5	40.1	43.8	47.7
	Unit Power (kW)	6.4	6.5	6.6	6.6	6.7	6.7
23.9	Head Press (kPa)	1810.5	1835.1	1859.7	1883.4	1904.2	1919.5
	Capacity (kW)	28.5	31.6	34.8	38.3	41.8	45.5
	Unit Power (kW)	6.9	7.0	7.0	7.1	7.2	7.3
29.4	Head Press (kPa)	2084.2	2109.6	2134.9	2158.6	2179.0	2193.3
	Capacity (kW)	27.0	29.9	33.0	36.2	39.6	43.0
	Unit Power (kW)	7.4	7.5	7.6	7.7	7.8	7.9
35	Head Press (kPa)	2384.5	2410.4	2435.8	2459.2	2478.6	2491.4
	Capacity (kW)	25.3	28.1	31.0	34.0	37.1	40.2
	Unit Power (kW)	8.1	8.2	8.3	8.4	8.5	8.5
40.6	Head Press (kPa)	2712.6	2738.6	2763.5	2785.9	2803.7	2814.5
	Capacity (kW)	23.5	26.1	28.8	31.6	34.5	37.3
	Unit Power (kW)	8.9	9.0	9.1	9.2	9.2	9.3
46.1	Head Press (kPa)	3069.6	3094.8	3118.6	3139.2	3154.8	3163.1
	Capacity (kW)	21.6	23.9	26.5	29.1	31.7	34.1
	Unit Power (kW)	9.7	9.8	9.9	10.0	10.1	10.1
51.7	Head Press (kPa)	3457.2	3480.5	3502.0	3519.9	3532.4	3537.7
	Capacity (kW)	19.6	21.8	24.1	26.5	28.8	30.8
	Unit Power (kW)	10.7	10.8	10.9	10.9	11.0	11.1

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 77. Gross cooling capacities (MBH) both compressors - TTA2014DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	276.5	278.9	285.4	292.5	297.5	299.1
	Capacity (Btuh/1000)	204.2	225.2	247.4	270.3	292.9	312.1
	Unit Power (kW)	12.8	13.0	13.3	13.5	13.8	13.9
75	Head Press (psig)	317.1	319.0	324.7	331.6	336.2	337.0
	Capacity (Btuh/1000)	193.8	213.8	234.6	256.1	276.8	293.7
	Unit Power (kW)	14.0	14.2	14.4	14.7	15.0	15.1
85	Head Press (psig)	361.6	362.9	367.2	373.8	377.8	377.8
	Capacity (Btuh/1000)	182.4	201.3	220.7	240.6	259.5	273.9
	Unit Power (kW)	15.5	15.6	15.8	16.1	16.3	16.4
95	Head Press (psig)	410.1	410.5	412.9	419.1	422.4	421.5
	Capacity (Btuh/1000)	169.9	187.8	205.8	224.2	241.3	253.1
	Unit Power (kW)	17.1	17.2	17.3	17.6	17.8	17.9
105	Head Press (psig)	462.7	461.9	461.9	467.5	469.9	468.0
	Capacity (Btuh/1000)	157.2	173.9	190.4	207.2	222.4	231.6
	Unit Power (kW)	18.9	18.9	19.0	19.2	19.4	19.4
115	Head Press (psig)	519.8	517.4	515.0	518.8	520.2	517.3
	Capacity (Btuh/1000)	145.1	160.4	175.3	190.4	203.5	209.7
	Unit Power (kW)	20.8	20.8	20.8	21.0	21.1	21.1
125	Head Press (psig)	582.2	577.6	573.4	573.3	573.4	569.3
	Capacity (Btuh/1000)	135.4	148.9	161.7	174.2	184.8	188.0
	Unit Power (kW)	23.0	22.9	22.8	22.8	22.9	22.8

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 78. Gross cooling capacities (kW) both compressors - TTA2014DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1906.4	1922.6	1967.8	2016.5	2051.5	2061.9
	Capacity (kW)	59.8	66.0	72.5	79.2	85.8	91.5
	Unit Power (kW)	12.8	13.0	13.3	13.5	13.8	13.9
23.9	Head Press (kPa)	2186.3	2199.6	2238.5	2286.2	2317.9	2323.3
	Capacity (kW)	56.8	62.7	68.8	75.1	81.1	86.1
	Unit Power (kW)	14.0	14.2	14.4	14.7	15.0	15.1
29.4	Head Press (kPa)	2492.9	2501.9	2531.7	2577.4	2604.9	2604.7
	Capacity (kW)	53.4	59.0	64.7	70.5	76.1	80.3
	Unit Power (kW)	15.5	15.6	15.8	16.1	16.3	16.4
35	Head Press (kPa)	2827.3	2830.1	2847.1	2889.8	2912.3	2906.0
	Capacity (kW)	49.8	55.0	60.3	65.7	70.7	74.2
	Unit Power (kW)	17.1	17.2	17.3	17.6	17.8	17.9
40.6	Head Press (kPa)	3190.5	3184.7	3184.6	3223.1	3239.6	3226.8
	Capacity (kW)	46.1	51.0	55.8	60.7	65.2	67.9
	Unit Power (kW)	18.9	18.9	19.0	19.2	19.4	19.4
46.1	Head Press (kPa)	3584.2	3567.3	3550.7	3577.2	3586.6	3566.9
	Capacity (kW)	42.5	47.0	51.4	55.8	59.6	61.5
	Unit Power (kW)	20.8	20.8	20.8	21.0	21.1	21.1
51.7	Head Press (kPa)	4014.4	3982.5	3953.4	3952.5	3953.7	3925.2
	Capacity (kW)	39.7	43.6	47.4	51.0	54.2	55.1
	Unit Power (kW)	23.0	22.9	22.8	22.8	22.9	22.8

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 79. Gross cooling capacities (MBH) one compressor - TTA2514DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	232.0	235.4	239.4	243.5	247.4	250.8
	Capacity (Btuh/1000)	117.1	129.1	141.9	155.4	169.7	184.6
	Unit Power (kW)	7.4	7.5	7.6	7.6	7.7	7.8
75	Head Press (psig)	268.9	272.3	276.5	280.7	284.7	288.0
	Capacity (Btuh/1000)	112.2	123.8	136.0	149.0	162.8	177.0
	Unit Power (kW)	8.0	8.1	8.2	8.3	8.4	8.4
85	Head Press (psig)	309.6	312.8	317.2	321.5	325.5	328.6
	Capacity (Btuh/1000)	106.6	117.6	129.3	141.8	154.9	168.3
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.2
95	Head Press (psig)	354.4	357.2	361.7	366.0	369.8	372.7
	Capacity (Btuh/1000)	100.3	110.7	121.8	133.6	145.9	158.4
	Unit Power (kW)	9.5	9.6	9.7	9.8	9.9	10.0
105	Head Press (psig)	403.4	405.7	410.0	414.2	417.8	420.4
	Capacity (Btuh/1000)	93.2	103.1	113.6	124.6	136.1	147.7
	Unit Power (kW)	10.5	10.5	10.7	10.8	10.9	11.0
115	Head Press (psig)	457.0	458.9	462.3	466.2	469.4	471.5
	Capacity (Btuh/1000)	85.7	95.0	104.8	115.1	125.7	136.1
	Unit Power (kW)	11.5	11.6	11.7	11.8	11.9	12.0
125	Head Press (psig)	515.7	516.8	518.6	522.1	524.8	526.2
	Capacity (Btuh/1000)	78.1	86.7	95.8	105.3	114.9	124.2
	Unit Power (kW)	12.7	12.7	12.8	12.9	13.0	13.1

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 80. Gross cooling capacities (kW) one compressors - TTA2514DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	1599.3	1622.8	1650.5	1678.6	1705.7	1729.2
	Capacity (kW)	34.3	37.8	41.6	45.5	49.7	54.1
	Unit Power (kW)	7.4	7.5	7.6	7.6	7.7	7.8
23.9	Head Press (kPa)	1854.0	1877.2	1906.3	1935.5	1962.9	1985.8
	Capacity (kW)	32.9	36.3	39.9	43.7	47.7	51.9
	Unit Power (kW)	8.0	8.1	8.2	8.3	8.4	8.4
29.4	Head Press (kPa)	2134.9	2156.9	2187.1	2216.8	2244.0	2265.9
	Capacity (kW)	31.2	34.5	37.9	41.6	45.4	49.3
	Unit Power (kW)	8.7	8.8	8.9	9.0	9.1	9.2
35	Head Press (kPa)	2443.6	2463.0	2493.7	2523.3	2549.8	2569.9
	Capacity (kW)	29.4	32.4	35.7	39.2	42.8	46.4
	Unit Power (kW)	9.5	9.6	9.7	9.8	9.9	10.0
40.6	Head Press (kPa)	2781.6	2797.3	2826.9	2855.7	2880.6	2898.2
	Capacity (kW)	27.3	30.2	33.3	36.5	39.9	43.3
	Unit Power (kW)	10.5	10.5	10.7	10.8	10.9	11.0
46.1	Head Press (kPa)	3150.9	3163.8	3187.3	3214.3	3236.7	3250.9
	Capacity (kW)	25.1	27.8	30.7	33.7	36.8	39.9
	Unit Power (kW)	11.5	11.6	11.7	11.8	11.9	12.0
51.7	Head Press (kPa)	3555.8	3563.0	3575.6	3599.6	3618.1	3628.1
	Capacity (kW)	22.9	25.4	28.1	30.9	33.7	36.4
	Unit Power (kW)	12.7	12.7	12.8	12.9	13.0	13.1

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Table 81. Gross cooling capacities (MBH) both compressors - TTA2514DC condensing unit only (IP)

Outdoor Temp (°F)		Suction Temperature (°F)					
		30	35	40	45	50	55
65	Head Press (psig)	306.8	309.2	310.8	311.7	317.9	323.5
	Capacity (Btuh/1000)	236.7	260.8	285.6	310.5	336.4	361.7
	Unit Power (kW)	16.0	16.2	16.3	16.4	16.7	16.9
75	Head Press (psig)	350.8	352.4	353.2	353.2	358.3	363.1
	Capacity (Btuh/1000)	224.9	247.9	271.6	295.1	319.2	342.3
	Unit Power (kW)	17.7	17.8	17.9	18.0	18.2	18.5
85	Head Press (psig)	399.0	399.4	399.1	398.0	401.7	405.5
	Capacity (Btuh/1000)	211.5	233.4	255.9	278.2	300.3	321.4
	Unit Power (kW)	19.5	19.6	19.7	19.7	19.9	20.1
95	Head Press (psig)	451.3	450.2	448.5	446.2	447.9	450.5
	Capacity (Btuh/1000)	197.4	218.1	239.3	260.2	280.4	299.3
	Unit Power (kW)	21.6	21.6	21.7	21.6	21.8	22.0
105	Head Press (psig)	507.7	504.8	501.5	497.6	496.8	498.1
	Capacity (Btuh/1000)	184.2	203.5	223.2	242.2	260.2	276.8
	Unit Power (kW)	23.9	23.8	23.8	23.7	23.8	23.9
115	Head Press (psig)	568.1	563.1	558.1	552.6	548.5	548.4
	Capacity (Btuh/1000)	174.3	191.7	209.1	225.7	240.6	254.3
	Unit Power (kW)	26.4	26.2	26.1	25.9	25.8	25.9
125	Head Press (psig)	633.8	627.0	620.0	612.4	604.1	601.2
	Capacity (Btuh/1000)	171.2	185.5	199.5	212.3	222.6	232.5
	Unit Power (kW)	29.0	28.8	28.6	28.3	28.1	28.0

Note: Performance data calculated at 15°F subcooling and 15°F superheat and does not include capacity loss due to refrigerant lines.

Table 82. Gross cooling capacities (kW) both compressors - TTA2514DC condensing unit only (SI)

Outdoor Temp (°C)		Suction Temperature (°C)					
		-1.1	1.7	4.4	7.2	10	12.8
18.3	Head Press (kPa)	2115.6	2131.8	2143.0	2148.8	2191.9	2230.1
	Capacity (kW)	69.4	76.4	83.7	91.0	98.6	106.0
	Unit Power (kW)	16.0	16.2	16.3	16.4	16.7	16.9
23.9	Head Press (kPa)	2418.8	2429.5	2435.2	2435.2	2470.7	2503.4
	Capacity (kW)	65.9	72.6	79.6	86.5	93.5	100.3
	Unit Power (kW)	17.7	17.8	17.9	18.0	18.2	18.5
29.4	Head Press (kPa)	2750.7	2753.7	2751.8	2744.4	2769.5	2795.5
	Capacity (kW)	62.0	68.4	75.0	81.5	88.0	94.2
	Unit Power (kW)	19.5	19.6	19.7	19.7	19.9	20.1
35	Head Press (kPa)	3111.8	3104.3	3092.6	3076.3	3087.9	3106.0
	Capacity (kW)	57.8	63.9	70.1	76.2	82.2	87.7
	Unit Power (kW)	21.6	21.6	21.7	21.6	21.8	22.0
40.6	Head Press (kPa)	3500.7	3480.4	3457.4	3431.0	3425.4	3434.4
	Capacity (kW)	54.0	59.6	65.4	71.0	76.3	81.1
	Unit Power (kW)	23.9	23.8	23.8	23.7	23.8	23.9
46.1	Head Press (kPa)	3916.7	3882.7	3847.8	3810.3	3782.0	3780.9
	Capacity (kW)	51.1	56.2	61.3	66.1	70.5	74.5
	Unit Power (kW)	26.4	26.2	26.1	25.9	25.8	25.9
51.7	Head Press (kPa)	4370.0	4323.3	4274.9	4222.6	4165.2	4145.4
	Capacity (kW)	50.2	54.4	58.5	62.2	65.2	68.1
	Unit Power (kW)	29.0	28.8	28.6	28.3	28.1	28.0

Note: Performance data calculated at 8.3°C subcooling and 8.3°C superheat and does not include capacity loss due to refrigerant lines.

Fan Performance

Table 83. Evaporator fan performance — TWE051 — air handler (IP)

	External Static Pressure (Inches of Water Gauge)																					
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1 HP Standard Motor												1.5 HP High Static Motor									
1600	—	—	—	—	550	0.33	629	0.39	695	0.46	747	0.52	807	0.72	854	0.77	887	0.80	906	0.81	912	0.82
1700	—	—	—	—	559	0.35	634	0.43	697	0.48	751	0.61	809	0.75	857	0.81	894	0.84	920	0.87	985	1.07
1800	—	—	—	—	569	0.38	640	0.46	701	0.53	756	0.64	813	0.77	861	0.85	901	0.90	952	1.07	991	1.14
1900	—	—	—	—	578	0.41	647	0.50	707	0.58	761	0.68	817	0.81	866	0.90	912	1.01	957	1.13	996	1.21
2000	—	—	522	0.34	590	0.45	654	0.52	711	1	768	0.73	821	0.84	870	0.95	917	1.06	962	1.20	1002	1.27
2100	—	—	534	0.38	599	0.48	662	0.59	719	0.67	774	0.77	826	0.88	875	1.00	921	1.11	968	1.27	1007	1.35
2200	474	0.30	547	0.43	610	0.52	671	0.64	727	0.72	781	0.82	832	0.93	881	1.06	926	1.17	973	1.33	1013	1.42
2300	489	0.35	560	0.47	621	0.56	680	0.69	736	0.77	788	0.87	838	0.98	886	1.12	932	1.23	979	1.40	1018	1.50
2400	505	0.41	573	0.52	632	0.61	690	0.74	745	0.83	796	0.93	844	1.04	893	1.18	937	1.30	969	1.47	1023	1.57

	External Static Pressure (Inches of Water Gauge)											
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP Ultra High Static Motor											
1600	1018	1.09	1060	1.21	1094	1.29	—	—	—	—	—	—
1700	1024	1.16	1065	1.28	1099	1.37	—	—	—	—	—	—
1800	1029	1.24	1070	1.35	1105	1.45	—	—	—	—	—	—
1900	1035	1.31	1075	1.42	1110	1.53	—	—	—	—	—	—
2000	1040	1.38	1080	1.50	1116	1.61	—	—	—	—	—	—
2100	1046	1.46	1085	1.58	1122	1.69	—	—	—	—	—	—
2200	1052	1.54	1090	1.66	—	—	—	—	—	—	—	—
2300	1057	1.62	1095	1.74	—	—	—	—	—	—	—	—
2400	1063	1.70	1101	1.82	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 84. Evaporator fan performance — TWE051 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	0.38 kW Standard Motor																.75 kW High Static Motor					
2379	612	0.15	674	0.18	731	0.22	786	0.25	840	0.29	891	0.34	941	0.38	989	0.43	1034	0.48	1077	0.53	1117	0.58
2549	647	0.18	705	0.21	760	0.25	812	0.29	863	0.33	912	0.37	960	0.42	1006	0.47	1051	0.52	1094	0.58	—	—
2719	683	0.21	738	0.25	790	0.29	840	0.33	888	0.37	936	0.42	980	0.46	1025	0.51	1070	0.57	1111	0.62	—	—
2889	719	0.25	771	0.29	821	0.33	869	0.37	914	0.41	959	0.46	1003	0.51	1047	0.56	1089	0.61	—	—	—	—
3059	756	0.29	804	0.33	853	0.37	898	0.42	942	0.46	985	0.51	1028	0.56	1068	0.61	1109	0.66	—	—	—	—
3228	792	0.34	838	0.38	884	0.42	928	0.47	971	0.52	1012	0.57	1052	0.62	1092	0.67	—	—	—	—	—	—
3398	829	0.39	873	0.43	917	0.48	959	0.53	1000	0.58	1040	0.63	1079	0.68	1117	0.73	—	—	—	—	—	—
3568	866	0.45	908	0.49	950	0.54	991	0.59	1030	0.64	1069	0.69	1106	0.75	1144	0.80	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 85. Evaporator fan performance — TWE072 — air handler (IP)

	External Static Pressure (Inches of Water Gauge)																					
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	1 HP Standard Motor												1.5 HP High Static Motor									
1600	—	—	—	—	550	0.33	629	0.39	695	0.46	747	0.52	807	0.72	854	0.77	887	0.80	906	0.81	912	0.82
1700	—	—	—	—	559	0.35	634	0.43	697	0.48	751	0.61	809	0.75	857	0.81	894	0.84	920	0.87	985	1.07
1800	—	—	—	—	569	0.38	640	0.46	701	0.53	756	0.64	813	0.77	861	0.85	901	0.90	952	1.07	991	1.14
1900	—	—	—	—	578	0.41	647	0.50	707	0.58	761	0.68	817	0.81	866	0.90	912	1.01	957	1.13	996	1.21
2000	—	—	522	0.34	590	0.45	654	0.52	711	1	768	0.73	821	0.84	870	0.95	917	1.06	962	1.20	1002	1.27
2100	—	—	534	0.38	599	0.48	662	0.59	719	0.67	774	0.77	826	0.88	875	1.00	921	1.11	968	1.27	1007	1.35
2200	474	0.30	547	0.43	610	0.52	671	0.64	727	0.72	781	0.82	832	0.93	881	1.06	926	1.17	973	1.33	1013	1.42
2300	489	0.35	560	0.47	621	0.56	680	0.69	736	0.77	788	0.87	838	0.98	886	1.12	932	1.23	979	1.40	1018	1.50
2400	505	0.41	573	0.52	632	0.61	690	0.74	745	0.83	796	0.93	844	1.04	893	1.18	937	1.30	969	1.47	1023	1.57

	External Static Pressure (Inches of Water Gauge)											
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP Ultra High Static Motor											
1600	1018	1.09	1060	1.21	1094	1.29	—	—	—	—	—	—
1700	1024	1.16	1065	1.28	1099	1.37	—	—	—	—	—	—
1800	1029	1.24	1070	1.35	1105	1.45	—	—	—	—	—	—
1900	1035	1.31	1075	1.42	1110	1.53	—	—	—	—	—	—
2000	1040	1.38	1080	1.50	1116	1.61	—	—	—	—	—	—
2100	1046	1.46	1085	1.58	1122	1.69	—	—	—	—	—	—
2200	1052	1.54	1090	1.66	—	—	—	—	—	—	—	—
2300	1057	1.62	1095	1.74	—	—	—	—	—	—	—	—
2400	1063	1.70	1101	1.82	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 86. Evaporator fan performance — TWE072 — air handler (SI)

External Static Pressure (Pascals)																						
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	.75 kW Standard Motor								1.12 kW High Static Motor								1.5 kW Ultra High Static Motor					
2718	—	—	—	—	550	0.25	629	0.29	695	0.34	747	0.39	807	0.54	854	0.58	887	0.60	906	0.61	912	0.61
2888	—	—	—	—	559	0.26	634	0.32	697	0.36	751	0.45	809	0.56	857	0.61	894	0.62	920	0.65	985	0.80
3058	—	—	—	—	569	0.29	640	0.34	701	0.39	756	0.48	813	0.58	861	0.64	901	0.67	952	0.80	991	0.85
3228	—	—	—	—	578	0.31	647	0.37	707	0.43	761	0.51	817	0.60	866	0.67	912	0.75	957	0.84	996	0.90
3398	—	—	522	0.26	590	0.34	654	0.39	711	0.46	768	0.54	821	0.63	870	0.71	917	0.79	962	0.89	1002	0.95
3568	—	—	534	0.29	599	0.36	662	0.44	719	0.50	774	0.57	826	0.66	875	0.75	921	0.83	968	0.94	1007	1.01
3738	474	0.22	547	0.32	610	0.39	671	0.47	727	0.54	781	0.61	832	0.69	881	0.79	926	0.87	973	1.00	1013	1.06
3908	489	0.26	560	0.35	621	0.42	680	0.51	736	0.58	788	0.65	838	0.73	886	0.83	932	0.92	979	1.05	1018	1.12
4078	505	0.30	573	0.39	632	0.46	690	0.55	745	0.62	796	0.69	844	0.78	893	0.88	937	0.97	969	1.10	1023	1.17

External Static Pressure (Pascals)						
	299		324		349	
m^3/hr	RPM	kW	RPM	kW	RPM	kW
	1.5 kW Ultra High Static Motor					
2718	1018	0.81	1060	0.90	1094	0.96
2888	1024	0.87	1065	0.95	1099	1.02
3058	1029	0.92	1070	1.00	1105	1.08
3228	1035	0.98	1075	1.06	1110	1.14
3398	1040	1.03	1080	1.12	1116	1.20
3568	1046	1.09	1085	1.18	1122	1.26
3738	1052	1.15	1090	1.24	—	—
3908	1057	1.21	1095	1.30	—	—
4078	1063	1.27	1101	1.36	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 87. Evaporator fan performance — TWE076 — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			1 HP Standard Motor						1.5 HP High Static Motor								2 HP Ultra High Static Motor					
2000	—	—	522	0.34	590	0.44	654	0.52	711	0.62	768	0.73	821	0.84	870	0.95	916	1.06	959	1.16	1001	1.27
2125	—	—	537	0.39	604	0.48	664	0.58	721	0.68	775	0.78	828	0.90	877	1.01	923	1.13	966	1.25	1009	1.36
2250	481	0.33	553	0.44	617	0.53	675	0.64	731	0.74	784	0.84	834	0.96	884	1.09	929	1.21	973	1.33	1016	1.46
2375	501	0.39	569	0.49	631	0.59	688	0.70	742	0.81	794	0.91	842	1.03	891	1.16	937	1.29	981	1.42	1022	1.55
2500	521	0.47	585	0.55	646	0.65	701	0.77	754	0.89	804	0.99	852	1.11	898	1.23	944	1.37	987	1.51	1028	1.64
2625	540	0.53	602	0.61	661	0.72	715	0.84	767	0.97	816	1.08	862	1.19	908	1.32	950	1.45	994	1.60	1036	1.74
2750	559	0.60	619	0.66	677	0.80	729	0.91	780	1.05	827	1.17	872	1.29	916	1.41	960	1.55	1001	1.69	1043	1.84
2875	579	0.67	636	0.72	692	0.88	744	1.00	793	1.13	840	1.27	885	1.40	928	1.52	969	1.65	1009	1.79	1049	1.94
3000	599	0.74	654	0.79	709	0.96	760	1.09	807	1.22	852	1.36	896	1.51	939	1.63	980	1.76	1019	1.90	1057	2.05

External Static Pressure (Inches of Water Gauge)												
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP Ultra High Static Motor											
2000	1040	1.38	1080	1.50	1116	1.61	—	—	—	—	—	—
2125	1048	1.48	1085	1.59	1123	1.71	—	—	—	—	—	—
2250	1054	1.58	1093	1.70	—	—	—	—	—	—	—	—
2375	1062	1.68	1099	1.80	—	—	—	—	—	—	—	—
2500	1068	1.78	1107	1.92	—	—	—	—	—	—	—	—
2625	1075	1.88	1113	2.02	—	—	—	—	—	—	—	—
2750	1083	1.99	—	—	—	—	—	—	—	—	—	—
2875	1090	2.10	—	—	—	—	—	—	—	—	—	—
3000	1097	2.21	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 88. Evaporator fan performance — TWE076 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	.75 kW Standard Motor								1.12 kW High Static Motor								1.5 kW Ultra High Static Motor					
3398	—	0.18	522	0.25	590	0.33	654	0.39	711	0.46	768	0.54	821	0.62	870	0.71	916	0.79	959	0.87	1001	0.95
3611	—	0.21	537	0.29	604	0.36	664	0.43	721	0.50	775	0.58	828	0.67	877	0.76	923	0.84	966	0.93	1009	1.02
3823	481	0.24	553	0.32	617	0.40	675	0.48	731	0.55	784	0.63	834	0.72	884	0.81	929	0.90	973	0.99	1016	1.09
4036	501	0.29	569	0.36	631	0.44	688	0.53	742	0.60	794	0.68	842	0.77	891	0.87	937	0.96	981	1.06	1022	1.15
4248	521	0.35	585	0.41	646	0.49	701	0.57	754	0.66	804	0.74	852	0.83	898	0.92	944	1.02	987	1.12	1028	1.22
4460	540	0.40	602	0.46	661	0.54	715	0.62	767	0.72	816	0.81	862	0.89	908	0.99	950	1.08	994	1.19	1036	1.30
4673	559	0.45	619	0.50	677	0.59	729	0.68	780	0.78	827	0.88	872	0.96	916	1.05	960	1.15	1001	1.26	1043	1.37
4885	579	0.50	636	0.54	692	0.65	744	0.74	793	0.84	840	0.95	885	1.04	928	1.13	969	1.23	1009	1.33	1049	1.45
5098	599	0.55	654	0.59	709	0.72	760	0.81	807	0.91	852	1.02	896	1.12	939	1.22	980	1.32	1019	1.42	1057	1.53

	External Static Pressure (Pascals)					
	299		324		349	
m^3/hr	RPM	kW	RPM	kW	RPM	kW
	1.5 kW Ultra High Static Motor					
3398	1040	1.03	1080	1.12	1116	1.20
3611	1048	1.10	1085	1.19	1123	1.28
3823	1054	1.18	1093	1.27	—	—
4036	1062	1.25	1099	1.35	—	—
4248	1068	1.33	1107	1.43	—	—
4460	1075	1.40	1113	1.51	—	—
4673	1083	1.49	—	—	—	—
4885	1090	1.57	—	—	—	—
5098	1097	1.65	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.

2. Fan motor heat (kW) = 1.238 x kW.

3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 89. Evaporator fan performance — TWE101 — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	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														2 HP High Static Motor							
2600	–	–	–	–	524	0.46	564	0.52	602	0.59	639	0.66	675	0.73	710	0.81	745	0.90	779	0.98	812	1.07
2775	–	–	497	0.46	542	0.52	581	0.60	618	0.67	653	0.74	687	0.81	721	0.89	754	0.97	787	1.07	819	1.16
2950	–	–	518	0.53	560	0.60	599	0.68	635	0.75	669	0.83	701	0.90	733	0.98	765	1.07	796	1.16	827	1.25
3125	498	0.54	540	0.62	578	0.68	617	0.76	652	0.84	685	0.92	717	1.00	747	1.08	778	1.17	808	1.26	837	1.35
3300	521	0.63	562	0.71	597	0.78	636	0.86	670	0.95	702	1.03	733	1.12	763	1.20	792	1.28	820	1.37	849	1.47
3475	544	0.73	583	0.81	618	0.89	654	0.97	688	1.06	720	1.15	750	1.23	779	1.32	806	1.41	834	1.50	861	1.59
3650	567	0.83	605	0.92	639	1.01	672	1.08	707	1.18	738	1.27	767	1.36	795	1.46	823	1.55	849	1.64	875	1.73
3825	591	0.95	627	1.04	661	1.14	691	1.21	725	1.30	756	1.40	785	1.50	813	1.60	839	1.70	865	1.79	890	1.89
4000	614	1.07	650	1.18	683	1.27	712	1.36	742	1.44	774	1.55	803	1.65	830	1.75	856	1.86	881	1.96	906	2.06

External Static Pressure (Inches of Water Gauge)																		
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"		2.00"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor w/ Field Supplied Sheave & Belt																	
2600	843	1.16	873	1.24	902	1.33	930	1.41	956	1.50	982	1.59	1008	1.67	1032	1.76	1056	1.84
2775	851	1.25	880	1.34	909	1.44	937	1.53	964	1.62	990	1.71	1015	1.80	1040	1.89	1064	1.99
2950	858	1.35	888	1.45	917	1.55	944	1.64	971	1.74	997	1.84	1023	1.94	1047	2.04	1071	2.13
3125	866	1.45	895	1.55	924	1.66	952	1.76	979	1.87	1005	1.97	1030	2.07	1055	2.18	1078	2.28
3300	876	1.57	904	1.67	932	1.78	959	1.89	986	2.00	1012	2.11	1037	2.22	1062	2.33	–	–
3475	888	1.69	915	1.80	941	1.90	967	2.01	994	2.13	1020	2.25	1045	2.36	–	–	–	–
3650	901	1.83	927	1.93	952	2.04	977	2.15	1002	2.27	–	–	–	–	–	–	–	–
3825	915	1.99	940	2.09	965	2.20	989	2.31	–	–	–	–	–	–	–	–	–	–
4000	930	2.16	954	2.26	978	2.36	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 90. Evaporator fan performance — TWE101 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
					1.5 HP Standard Motor										2 HP High Static Motor							
4418	–	–	–	–	524	0.34	564	0.39	602	0.44	639	0.49	675	0.54	710	0.60	745	0.67	779	0.73	812	0.80
4715	–	–	497	0.34	542	0.39	581	0.44	618	0.50	653	0.55	687	0.60	721	0.66	754	0.73	787	0.79	819	0.86
5013	–	–	518	0.40	560	0.45	599	0.50	635	0.56	669	0.62	701	0.67	733	0.73	765	0.79	796	0.86	827	0.93
5310	498	0.41	540	0.46	578	0.51	617	0.57	652	0.63	685	0.69	717	0.75	747	0.81	778	0.87	808	0.94	837	1.01
5607	521	0.47	562	0.53	597	0.58	636	0.64	670	0.70	702	0.77	733	0.83	763	0.89	792	0.96	820	1.02	849	1.09
5905	544	0.54	583	0.61	618	0.66	654	0.72	688	0.79	720	0.85	750	0.92	779	0.99	806	1.05	834	1.12	861	1.19
6202	567	0.62	605	0.69	639	0.75	672	0.81	707	0.88	738	0.95	767	1.02	795	1.09	823	1.15	849	1.22	875	1.29
6499	591	0.71	627	0.78	661	0.85	691	0.90	725	0.97	756	1.05	785	1.12	813	1.19	839	1.27	865	1.34	890	1.41
6797	614	0.80	650	0.88	683	0.95	712	1.01	742	1.08	774	1.15	803	1.23	830	1.31	856	1.38	881	1.46	906	1.53

	External Static Pressure (Pascals)																	
	299		324		349		374		398		423		448		473		498	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	rpm	kW
	2 HP High Static Motor w/ Field Supplied Sheave & Belt																	
4418	843	0.86	873	0.93	902	0.99	930	1.05	956	1.12	982	1.18	1008	1.25	1032	1.31	1056	1.38
4715	851	0.93	880	1.00	909	1.07	937	1.14	964	1.21	990	1.28	1015	1.34	1040	1.41	1064	1.48
5013	858	1.01	888	1.08	917	1.15	944	1.23	971	1.30	997	1.37	1023	1.44	1047	1.52	1071	1.59
5310	866	1.08	895	1.16	924	1.24	952	1.32	979	1.39	1005	1.47	1030	1.55	1055	1.62	1078	1.70
5607	876	1.17	904	1.24	932	1.32	959	1.41	986	1.49	1012	1.57	1037	1.65	1062	1.73	–	–
5905	888	1.26	915	1.34	941	1.42	967	1.50	994	1.59	1020	1.67	1045	1.76	–	–	–	–
6202	901	1.37	927	1.44	952	1.52	977	1.61	1002	1.69	–	–	–	–	–	–	–	–
6499	915	1.48	940	1.56	965	1.64	989	1.72	–	–	–	–	–	–	–	–	–	–
6797	930	1.61	954	1.68	978	1.76	–	–	–	–	–	–	–	–	–	–	–	–

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 91. Evaporator fan performance —TWE126 — air handler (IP)

	External Static Pressure (Inches of Water Gauge)																			
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	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								1.5 HP Standard Motor w/ Field Supplied Sheave & Belt						2 HP High Static Motor			
3200	—	—	—	—	515	0.51	565	0.63	601	0.71	638	0.81	678	0.93	718	1.06	759	1.21	794	1.35	826	1.49
3400	—	—	472	0.46	528	0.57	578	0.69	617	0.80	650	0.89	686	1.00	724	1.13	762	1.27	800	1.42	834	1.57
3600	—	—	486	0.51	541	0.63	590	0.76	633	0.89	666	0.98	697	1.08	732	1.20	767	1.34	804	1.49	840	1.65
3800	—	—	500	0.57	554	0.70	601	0.82	646	0.97	682	1.09	712	1.19	742	1.29	776	1.43	810	1.57	843	1.72
4000	—	—	515	0.64	567	0.78	614	0.91	658	1.05	698	1.20	728	1.31	756	1.41	786	1.53	817	1.66	849	1.82
4200	477	0.58	531	0.71	581	0.85	627	1.00	669	1.13	710	1.29	744	1.43	772	1.55	799	1.65	827	1.78	858	1.93
4400	494	0.65	546	0.79	595	0.94	640	1.09	682	1.23	722	1.39	758	1.55	789	1.69	814	1.80	840	1.92	867	2.05
4600	513	0.73	563	0.87	609	1.03	653	1.19	695	1.34	732	1.48	771	1.66	804	1.83	831	1.96	856	2.08	880	2.20
4800	531	0.82	579	0.96	624	1.13	667	1.29	707	1.45	745	1.60	783	1.77	817	1.96	847	2.12	872	2.25	896	2.37

	External Static Pressure (Inches of Water Gauge)											
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor				3 HP Ultra High Static Motor							
3200	857	1.63	887	1.78	916	1.93	943	2.08	970	2.23	996	2.39
3400	865	1.72	895	1.88	924	2.03	952	2.19	978	2.35	1003	2.50
3600	873	1.81	903	1.97	931	2.13	959	2.29	986	2.46	1012	2.62
3800	877	1.89	912	2.08	940	2.24	967	2.41	994	2.58	—	—
4000	882	1.98	915	2.16	947	2.34	976	2.53	1002	2.70	—	—
4200	888	2.08	919	2.25	950	2.44	980	2.63	1010	2.82	—	—
4400	896	2.20	925	2.37	955	2.55	985	2.73	1013	2.92	—	—
4600	906	2.34	934	2.50	961	2.67	989	2.85	—	—	—	—
4800	918	2.50	944	2.65	970	2.81	996	2.98	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 92. Evaporator fan performance — TWE126 — air handler (SI)

External Static Pressure (Pascals)																						
	25		50		75		100		125		150		174		199		224		249		274	
m³/hr	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								1.12 kW Standard Motor w/ Field Supplied Sheave & Belt						1.49 kW High Static Motor			
5437	—	—	—	—	515	0.38	565	0.47	601	0.53	638	0.60	678	0.69	718	0.79	759	0.90	794	1.01	826	1.11
5777	—	—	472	0.34	528	0.42	578	0.52	617	0.60	650	0.66	686	0.74	724	0.84	762	0.94	800	1.06	834	1.17
6117	—	—	486	0.38	541	0.47	590	0.56	633	0.66	666	0.73	697	0.81	732	0.90	767	1.00	804	1.11	840	1.23
6457	—	—	500	0.43	554	0.52	601	0.61	646	0.72	682	0.81	712	0.89	742	0.97	776	1.06	810	1.17	843	1.29
6797	—	—	515	0.48	567	0.58	614	0.68	658	0.78	698	0.89	728	0.98	756	1.05	786	1.14	817	1.24	849	1.35
7137	477	0.43	531	0.53	581	0.64	627	0.74	669	0.84	710	0.96	744	1.07	772	1.15	799	1.23	827	1.33	858	1.44
7476	494	0.48	546	0.59	595	0.70	640	0.81	682	0.92	722	1.03	758	1.16	789	1.26	814	1.34	840	1.43	867	1.53
7816	513	0.54	563	0.65	609	0.77	653	0.88	695	1.00	732	1.10	771	1.24	804	1.36	831	1.46	856	1.55	880	1.64
8156	531	0.61	579	0.72	624	0.84	667	0.96	707	1.08	745	1.19	783	1.32	817	1.46	847	1.58	872	1.68	896	1.77

External Static Pressure (Pascals)												
	299		324		349		374		398		423	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	1.49 kW High Static Motor				2.24 kW Ultra High Static Motor							
5437	857	1.22	887	1.33	916	1.44	943	1.55	970	1.66	996	1.78
5777	865	1.29	895	1.40	924	1.51	952	1.63	978	1.75	1003	1.87
6117	873	1.35	903	1.47	931	1.59	959	1.71	986	1.83	1012	1.96
6457	877	1.41	912	1.55	940	1.67	967	1.80	994	1.92	—	—
6797	882	1.48	915	1.61	947	1.75	976	1.88	1002	2.01	—	—
7137	888	1.55	919	1.68	950	1.82	980	1.96	1010	2.11	—	—
7476	896	1.64	925	1.76	955	1.90	985	2.04	1013	2.18	—	—
7816	906	1.74	934	1.86	961	1.99	989	2.12	—	—	—	—
8156	918	1.86	944	1.97	970	2.10	996	2.22	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 93. Evaporator fan performance —TWE156 — air handler (IP)

	External Static Pressure (Inches of Water Gauge)																					
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
					2 HP Standard Motor w/ Field Supplied Sheave & Belt								1.5 HP Standard Motor w/ Field Supplied Sheave & Belt						2 HP High Static Motor			
4000	428	0.5	482	0.62	531	0.72	576	0.84	621	0.98	663	1.11	701	1.25	737	1.38	771	1.51	803	1.64	833	1.77
4250	448	0.58	499	0.71	546	0.82	590	0.94	633	1.08	674	1.22	712	1.37	748	1.51	782	1.65	814	1.79	845	1.93
4500	468	0.68	517	0.81	563	0.93	605	1.05	646	1.19	686	1.34	724	1.50	760	1.65	793	1.80	825	1.95	855	2.09
4750	488	0.78	535	0.91	579	1.06	621	1.18	660	1.32	698	1.46	735	1.63	772	1.79	805	1.95	837	2.11	867	2.27
5000	509	0.90	554	1.03	596	1.19	637	1.32	675	1.46	712	1.61	748	1.77	783	1.94	817	2.11	848	2.28	878	2.44
5250	530	1.02	573	1.16	614	1.32	653	1.47	691	1.61	726	1.76	760	1.92	795	2.10	828	2.28	859	2.45	890	2.64
5500	551	1.16	593	1.31	632	1.47	670	1.64	706	1.78	741	1.93	774	2.09	807	2.26	840	2.46	871	2.64	902	2.83
5750	572	1.32	612	1.47	651	1.63	687	1.81	722	1.97	757	2.12	789	2.28	821	2.45	852	2.64	883	2.84	912	3.03
6000	593	1.48	632	1.64	670	1.81	705	1.99	739	2.17	772	2.32	804	2.48	835	2.66	865	2.84	895	3.04	924	3.24

	External Static Pressure (Inches of Water Gauge)											
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	2 HP High Static Motor				3 HP Ultra High Static Motor							
4000	863	1.9	891	2.03	919	2.15	944	2.28	970	2.40	994	2.53
4250	874	2.07	902	2.20	928	2.33	955	2.47	981	2.61	1004	2.74
4500	884	2.24	913	2.38	939	2.53	966	2.68	991	2.82	1015	2.96
4750	895	2.42	924	2.58	951	2.74	977	2.88	1002	3.04	—	—
5000	907	2.61	934	2.77	962	2.94	—	—	—	—	—	—
5250	918	2.81	946	2.98	973	3.16	—	—	—	—	—	—
5500	931	3.02	958	3.20	—	—	—	—	—	—	—	—
5750	941	3.23	—	—	—	—	—	—	—	—	—	—
6000	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 94. Evaporator fan performance — TWE156 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m³/hr	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 w/ Field Supplied Sheave & Belt						1.49 kW Standard Motor						2.24 kW High Static Motor									
6797	428	0.37	482	0.46	531	0.54	576	0.63	621	0.73	663	0.83	701	0.93	737	1.03	771	1.13	803	1.22	833	1.32
7222	448	0.43	499	0.53	546	0.61	590	0.70	633	0.80	674	0.91	712	1.02	748	1.13	782	1.23	814	1.33	845	1.44
7646	468	0.50	517	0.60	563	0.70	605	0.79	646	0.89	686	1.00	724	1.12	760	1.23	793	1.34	825	1.45	855	1.56
8071	488	0.58	535	0.68	579	0.79	621	0.88	660	0.98	698	1.09	735	1.21	772	1.34	805	1.46	837	1.57	867	1.69
8496	509	0.67	554	0.77	596	0.88	637	0.99	675	1.09	712	1.20	748	1.32	783	1.45	817	1.58	848	1.70	878	1.82
8921	530	0.76	573	0.87	614	0.99	653	1.10	691	1.20	726	1.31	760	1.43	795	1.57	828	1.70	859	1.83	890	1.97
9346	551	0.87	593	0.97	632	1.10	670	1.22	706	1.33	741	1.44	774	1.56	807	1.69	840	1.83	871	1.97	902	2.11
9770	572	0.98	612	1.09	651	1.22	687	1.35	722	1.47	757	1.58	789	1.70	821	1.83	852	1.97	883	2.11	912	2.26
10195	593	1.11	632	1.22	670	1.35	705	1.49	739	1.61	772	1.73	804	1.85	835	1.98	865	2.12	895	2.27	924	2.42

	External Static Pressure (Pascals)											
	299		324		349		374		398		423	
m³/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	2.24 kW High Static Motor w/ Field Supplied Sheave & Belt											
6797	863	1.42	891	1.51	919	1.61	944	1.70	970	1.79	994	1.88
7222	874	1.54	902	1.64	928	1.74	955	1.84	981	1.95	1004	2.04
7646	884	1.67	913	1.78	939	1.88	966	2.00	991	2.10	1015	2.21
8071	895	1.80	924	1.92	951	2.04	977	2.15	1002	2.26	—	—
8496	907	1.95	934	2.07	962	2.19	—	—	—	—	—	—
8921	918	2.09	946	2.22	973	2.35	—	—	—	—	—	—
9346	931	2.25	958	2.39	—	—	—	—	—	—	—	—
9770	941	2.41	—	—	—	—	—	—	—	—	—	—
10195	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 95. Evaporator fan performance —TWE201 — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
			2 HP Low Static Motor										3.5 HP Standard Motor								3.5 HP Standard Motor w/ Field Supplied Sheave & Belt	
5200	—	—	531	0.83	580	0.96	627	1.09	666	1.21	707	1.37	748	1.54	787	1.71	825	1.88	864	2.06	902	2.24
5525	—	—	551	0.96	599	1.10	644	1.23	684	1.37	722	1.51	760	1.68	799	1.87	834	2.04	872	2.23	909	2.42
5850	—	—	572	1.10	619	1.25	662	1.39	703	1.54	738	1.68	774	1.84	810	2.02	846	2.22	880	2.40	916	2.60
6175	543	1.11	593	1.26	638	1.42	680	1.57	720	1.72	757	1.87	790	2.02	824	2.20	859	2.40	893	2.61	926	2.81
6500	566	1.28	614	1.43	659	1.61	699	1.77	737	1.92	775	2.08	807	2.24	839	2.40	871	2.59	904	2.80	936	3.02
6825	590	1.47	636	1.62	679	1.80	718	1.98	755	2.14	792	2.31	826	2.48	857	2.64	886	2.81	918	3.02	950	3.25
7150	614	1.67	658	1.83	700	2.02	738	2.21	774	2.38	809	2.55	844	2.73	875	2.90	903	3.07	932	3.26	962	3.47
7475	638	1.89	680	2.06	720	2.25	758	2.45	794	2.63	827	2.81	861	2.99	893	3.18	921	3.36	949	3.54	976	3.73
7800	662	2.13	702	2.31	742	2.50	779	2.71	814	2.91	846	3.09	879	3.28	910	3.48	940	3.67	967	3.86	993	4.04

External Static Pressure (Inches of Water Gauge)																
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
				5 HP High Static Motor							5 HP High Static Motor w/ Field Supplied Sheave & Belt					
5200	937	2.42	972	2.59	1004	2.77	1036	2.95	1066	3.12	1095	3.29	1125	3.46	1152	3.63
5525	943	2.60	978	2.80	1012	2.99	1042	3.17	1072	3.35	1102	3.54	1132	3.73	1159	3.91
5850	951	2.80	984	3.00	1018	3.21	1050	3.41	1080	3.60	1109	3.80	1138	4.00	1166	4.19
6175	958	3.00	992	3.22	1024	3.43	1056	3.64	1086	3.86	1115	4.06	1143	4.27	—	—
6500	967	3.22	998	3.44	1030	3.65	1063	3.89	1093	4.11	1122	4.33	1151	4.56	—	—
6825	980	3.47	1010	3.69	1039	3.90	1069	4.13	1098	4.36	1129	4.61	1158	4.85	—	—
7150	991	3.70	1021	3.94	1051	4.18	1078	4.41	1107	4.65	1135	4.88	1165	5.14	—	—
7475	1005	3.97	1034	4.21	1062	4.46	1090	4.71	1117	4.94	1144	5.19	—	—	—	—
7800	1019	4.24	1047	4.49	1074	4.74	1102	5.01	1128	5.25	1154	5.51	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 96. Evaporator fan performance — TWE201 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	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 Low Static Motor										2.24 kW Standard Motor						2.24 kW Standard Motor w/ Field Supplied Sheave & Belt			
8836	—	—	531	0.62	580	0.71	627	0.81	666	0.90	707	1.02	748	1.15	787	1.27	825	1.40	864	1.54	902	1.67
9388	—	—	551	0.72	599	0.82	644	0.92	684	1.02	722	1.12	760	1.25	799	1.39	834	1.52	872	1.66	909	1.80
9940	—	—	572	0.82	619	0.94	662	1.04	703	1.15	738	1.25	774	1.37	810	1.51	846	1.65	880	1.79	916	1.94
10493	543	0.83	593	0.94	638	1.06	680	1.17	720	1.29	757	1.40	790	1.51	824	1.64	859	1.79	893	1.94	926	2.09
11045	566	0.95	614	1.07	659	1.20	699	1.32	737	1.43	775	1.55	807	1.67	839	1.79	871	1.93	904	2.09	936	2.25
11597	590	1.09	636	1.21	679	1.34	718	1.48	755	1.59	792	1.72	826	1.85	857	1.97	886	2.09	918	2.25	950	2.42
12149	614	1.25	658	1.37	700	1.50	738	1.65	774	1.77	809	1.90	844	2.03	875	2.16	903	2.29	932	2.43	962	2.59
12702	638	1.41	680	1.54	720	1.68	758	1.83	794	1.96	827	2.09	861	2.23	893	2.37	921	2.51	949	2.64	976	2.79
13254	662	1.59	702	1.72	742	1.86	779	2.02	814	2.17	846	2.31	879	2.45	910	2.59	940	2.74	967	2.88	993	3.02

	External Static Pressure (Pascals)													
	299		324		349		374		398		423		448	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	3.73 kW Ultra High Static Motor				3.73 kW Ultra High Static Motor w/ Field Supplied Sheave & Belt									
8836	937	1.80	972	1.94	1004	2.07	1036	2.20	1066	2.33	1095	2.45	1125	2.58
9388	943	1.94	978	2.09	1012	2.23	1042	2.36	1072	2.50	1102	2.64	1132	2.78
9940	951	2.09	984	2.24	1018	2.39	1050	2.54	1080	2.69	1109	2.83	—	—
10493	958	2.24	992	2.40	1024	2.56	1056	2.72	1086	2.88	1115	3.03	—	—
11045	967	2.40	998	2.56	1030	2.73	1063	2.90	1093	3.07	1122	3.23	—	—
11597	980	2.59	1010	2.75	1039	2.91	1069	3.08	1098	3.26	1129	3.44	—	—
12149	991	2.76	1021	2.94	1051	3.12	1078	3.29	1107	3.47	—	—	—	—
12702	1005	2.96	1034	3.14	1062	3.32	1090	3.51	1117	3.69	—	—	—	—
13254	1019	3.17	1047	3.35	1074	3.54	1102	3.74	1128	3.92	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 97. Evaporator fan performance —TWE251 — air handler (IP)

External Static Pressure (Inches of Water Gauge)																						
	0.10"		0.20"		0.30"		0.40"		0.50"		0.60"		0.70"		0.80"		0.90"		1.00"		1.10"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
					5 HP Standard Motor & Low Static Drive Field Installed Sheaves										5 HP Standard Motor & Drive							
6500	—	—	—	—	618	1.50	657	1.71	693	1.95	735	2.25	774	2.56	806	2.83	835	3.09	864	3.32	894	3.55
7000	—	—	610	1.56	648	1.77	685	2.00	719	2.23	754	2.49	793	2.83	830	3.17	860	3.46	887	3.73	914	4.00
7500	604	1.64	642	1.86	679	2.08	714	2.31	748	2.55	779	2.81	812	3.11	848	3.46	883	3.83	913	4.16	939	4.45
8000	639	1.96	676	2.19	710	2.42	743	2.67	776	2.92	807	3.18	836	3.46	868	3.79	902	4.17	935	4.57	965	4.93
8500	674	2.33	709	2.57	742	2.81	774	3.07	804	3.33	835	3.60	863	3.88	890	4.17	920	4.53	953	4.93	985	5.35
9000	709	2.73	743	2.98	775	3.24	805	3.51	834	3.78	863	4.06	891	4.35	918	4.65	944	4.97	972	5.34	—	—
9500	745	3.18	777	3.44	808	3.72	837	4.00	865	4.28	892	4.57	920	4.88	946	5.18	971	5.50	—	—	—	—
10000	780	3.68	812	3.95	841	4.25	869	4.53	896	4.83	922	5.13	949	5.45	—	—	—	—	—	—	—	—
10500	816	4.23	846	4.52	875	4.82	902	5.13	927	5.43	953	5.74	—	—	—	—	—	—	—	—	—	—

External Static Pressure (Inches of Water Gauge)																
	1.20"		1.30"		1.40"		1.50"		1.60"		1.70"		1.80"		1.90"	
CFM	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP	RPM	BHP
	5 HP Standard Motor & High Static Drive Field Supplied Sheaves															
6500	923	3.78	952	4.03	982	4.28	1012	4.55	1042	4.82	1071	5.09	1099	5.37	1129	5.67
7000	941	4.24	969	4.49	997	4.75	1023	5.01	1051	5.29	1079	5.57	—	—	—	—
7500	964	4.74	989	5.01	1015	5.28	1041	5.55	—	—	—	—	—	—	—	—
8000	990	5.25	1013	5.55	—	—	—	—	—	—	—	—	—	—	—	—
8500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10000	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10500	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (MBh) = 3.15 x BHP.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 98. Evaporator fan performance — TWE251 — air handler (SI)

	External Static Pressure (Pascals)																					
	25		50		75		100		125		150		174		199		224		249		274	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
					3.73 kW Standard Motor w/ Low Static Drive Field Installed Sheaves				3.73 kW Standard Motor & Drive													
11044	—	—	—	—	618	1.12	657	1.28	693	1.45	735	1.68	774	1.91	806	2.11	835	2.30	864	2.47	894	2.65
11893	—	—	610	1.17	648	1.32	685	1.49	719	1.66	754	1.86	793	2.11	830	2.36	860	2.58	887	2.78	914	2.98
12742	604	1.23	642	1.39	679	1.55	714	1.72	748	1.90	779	2.09	812	2.32	848	2.58	883	2.86	913	3.10	939	3.32
13592	639	1.47	676	1.64	710	1.81	743	1.99	776	2.18	807	2.37	836	2.58	868	2.82	902	3.11	935	3.40	965	3.68
14441	674	1.74	709	1.91	742	2.10	774	2.29	804	2.48	835	2.68	863	2.89	890	3.11	920	3.38	953	3.68	985	3.99
15291	709	2.04	743	2.22	775	2.42	805	2.61	834	2.82	863	3.03	891	3.24	918	3.47	944	3.71	972	3.98	—	—
16140	745	2.37	777	2.57	808	2.78	837	2.98	865	3.19	892	3.41	920	3.64	946	3.86	971	4.10	—	—	—	—
16990	780	2.75	812	2.95	841	3.17	869	3.38	896	3.60	922	3.83	949	4.06	—	—	—	—	—	—	—	—
17840	816	3.16	846	3.37	875	3.60	902	3.82	927	4.05	953	4.28	—	—	—	—	—	—	—	—	—	—

	External Static Pressure (Pascals)															
	299		324		349		374		398		423		448		473	
m^3/hr	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW	RPM	kW
	3.73 kW Standard Motor w/ High Static Drive Field Supplied Sheaves															
11044	923	2.82	952	3.00	982	3.19	1012	3.39	1042	3.59	1071	3.80	1099	4.00	1129	4.22
11893	941	3.16	969	3.35	997	3.54	1023	3.73	1051	3.94	1079	4.15	—	—	—	—
12742	964	3.54	989	3.73	1015	3.94	1041	4.14	—	—	—	—	—	—	—	—
13592	990	3.91	1013	4.14	—	—	—	—	—	—	—	—	—	—	—	—
14441	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
15291	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
16990	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
17840	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. Data includes pressure drop due to wet coil and 1" filter.
2. Fan motor heat (kW) = 1.238 x kW.
3. Factory supplied motors, in commercial equipment, are definite purpose motors, specifically designed and tested to operate reliably and continuously at all cataloged conditions. Using the full horsepower range of our fan motors as shown in our tabular data will not result in nuisance tripping or premature motor failure. Our product's warranty will not be affected.

Table 99. Low static fan motors - constant volume air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE201	Low Static Motor 2 HP (1.5 kW)	0	712	N/A	N/A	N/A
		1	677			
		2	641			
		3	605			
		4	569			
		5	533			

Table 100. Standard fan motors - constant volume air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE051	Standard Motor .5 HP (.38 kW)	0 1 2 3 4 5	892 833 773 714 654 595	N/A	N/A	N/A
TWE072	Standard Motor 1 HP (.75 kW)	0 1 2 3 4 5	706 659 612 565 518 471	N/A	N/A	N/A
TWE076	Standard Motor 1 HP (.75 kW)	0 1 2 3 4 5	706 659 612 565 518 471	N/A	N/A	N/A
TWE101	Standard Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	682 644 606 568 530 492	N/A	N/A	N/A
TWE126	Standard Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	640 604 569 533 498 462	N/A	N/A	N/A
TWE126	Standard Motor with Field Supplied Components 1.5 HP (1.13 kW) (high static)	0 1 2 3 4 5	761 718 671 624 577 549	Variable Pitch (2.4 - 3.4 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VL40	Fixed Pitch (6.7 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning AK71	Browning A55
TWE156	Standard Motor 2 HP (1.49 kW)	0 1 2 3 4 5 6	704 676 648 620 592 565 537	N/A	N/A	N/A
TWE156	Standard Motor with Field Supplied Components 2 HP (1.49 kW) (high static)	0 1 2 3 4 5	809 770 732 693 655 616	Variable Pitch (3.2 - 4.2 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VL44	Fixed Pitch (7.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK80	Browning BX58
TWE201	Standard Motor 3.5 HP (2.61 kW)	0 1 2 3 4 5	814 780 746 713 679 645	N/A	N/A	N/A

Table 100. Standard fan motors - constant volume air handlers (continued)

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE201	Standard Motor with Field Supplied Components 3.5 HP (2.61 kW) (high static)	0 1 2 3 4 5	924 886 847 809 770 732	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP50	Fixed Pitch (10.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK80	Browning BX62
TWE251	Standard Motor with Field Supplied Components 5 HP (3.73 kW) (low static)	1 2 3 4 5 6	713 679 645 611 577 543	Variable Pitch (3.2 - 4.2 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP44	Fixed Pitch (8.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK90	Browning BX70
TWE251	Standard Motor 5 HP (3.73 kW)	1 2 3 4 5 6	896 853 809 765 722 678	N/A	N/A	N/A
TWE251	Standard Motor with Field Supplied Components 5 HP (3.73 kW) (high static)	1 2 3 4 5 6	1084 1044 1004 963 923 883	Variable Pitch (4.4 - 5.4 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP56	Fixed Pitch (7.1 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK110	Browning BX62

Table 101. High static fan motors - constant volume air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE051	High Static Motor 1 HP (.75kW)	0 1 2 3 4 5	1122 1066 1010 954 898 842	N/A	N/A	N/A
TWE072	High Static Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	912 866 820 775 729 683	N/A	N/A	N/A
TWE076	High Static Motor 1.5 HP (1.13 kW)	0 1 2 3 4 5	912 866 820 775 729 683	N/A	N/A	N/A
TWE101	High Static Motor 2 HP (1.5 kW)	0 1 2 3 4 5	810 769 729 688 648 607	N/A	N/A	N/A

Table 101. High static fan motors - constant volume air handlers (continued)

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE101	High Static Motor with Field Supplied Components 2 HP (1.5 kW)	0 1 2 3 4 5	1092 1035 977 920 862 805	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 0.875 Inch Bore, Single Groove, Browning 1VP44	Fixed Pitch (6.0 Inch Pitch Diameter), 1.0 Inch Bore, Single Groove, Browning AK64	Browning A50
TWE126	High Static Motor 2 HP (1.5 kW)	0 1 2 3 4 5	912 866 825 785 744 683	N/A	N/A	N/A
TWE156	High Static Motor 3.5 HP (2.6 kW)	0 1 2 3 4 5 6	853 824 794 765 735 705 676	N/A	N/A	N/A
TWE156	High Static Motor with Field Supplied Components 3.5 HP (2.6 kW)	0 1 2 3 4 5 6	1014 979 932 885 838 803 803	Variable Pitch (3.4 - 4.4 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP50	Fixed Pitch (6.6 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK72	Browning BX58
TWE201	High Static Motor 5 HP (3.75 kW)	0 1 2 3 4 5 6	1078 1036 993 950 907 864 822	N/A	N/A	N/A
TWE201	High Static Motor with Field Supplied Components 5 HP (3.75 kW)	0 1 2 3 4 5 6	1096 1067 1036 1004 973 941 926	Variable Pitch (2.8 - 3.8 Inch Pitch Diameter), 1.125 Inch Bore, Single Groove, Browning 1VP44	Fixed Pitch (10.4 Inch Pitch Diameter), 1.4375 Inch Bore, Single Groove, Browning BK110	Browning BX62

Table 102. Ultra high static fan motors - constant volume air handlers

Model	Motor	Motor Sheave Turns Open	Nominal RPM	Required Field Supplied Components		
				Motor Sheave	Blower Sheave	Belt
TWE072	Ultra High Static Motor 2 HP (1.5 kW)	0	1122	N/A	N/A	N/A
		1	1034			
		2	946			
		3	859			
		4	771			
		5	683			
		—	—			
TWE076	Ultra High Static Motor 2 HP (1.5 kW)	0	1122	N/A	N/A	N/A
		1	1034			
		2	946			
		3	859			
		4	771			
		5	683			
		—	—			
TWE126	Ultra High Static Motor 3.5 HP (2.6 kW)	0	1014	N/A	N/A	N/A
		1	979			
		2	944			
		3	909			
		4	874			
		5	838			
		6	803			

Table 103. Discharge plenum and grille assembly throw distance — air handler — ft (m)

Unit Model No.	CFM	m^3/h	Louver angle Deflection Position (ft)				Louver angle Deflection Position (m)			
			Straight	20°	40°	55°	Straight	20°	40°	55°
TWE051	1800	3060	46	37	29	22	14.0	11.3	8.8	6.7
	2000	3395	48	43	33	24	14.6	13.1	10.1	7.3
	2200	3737	51	50	36	25	15.5	15.2	11.0	7.6
	2400	4074	44	58	41	28	13.4	17.7	12.5	8.5
TWE072	1800	3061	47	34	28	24	14.0	10.3	8.3	8.0
	2000	3400	49	37	30	26	14.7	11.2	9.0	8.3
	2200	3739	50	40	32	28	15.3	12.2	9.8	8.5
	2400	4078	52	43	35	29	15.9	13.1	10.6	8.8
TWE076	2250	3823	51	41	33	28	15.4	12.4	10.0	8.6
	2500	4249	53	45	36	30	16.2	13.6	10.9	9.0
	2750	4671	56	49	39	31	16.9	14.9	11.9	9.4
	3000	5098	58	53	42	32	17.7	16.2	12.8	9.9
TWE101	3025	5139	57	44	36	32	17.4	13.4	10.8	9.6
	3350	5692	60	48	39	32	18.3	14.7	12.0	9.7
	3675	6245	63	52	43	33	19.3	16.0	13.2	10.0
	4000	6795	67	57	47	35	20.3	17.3	14.4	10.5
TWE126	3750	6370	44	27	25	38	13.4	8.1	7.5	11.7
	4200	7137	45	31	28	48	13.7	9.5	8.5	14.5
	4650	7902	47	36	31	57	14.3	10.9	9.5	17.4
	5100	8666	50	40	34	67	15.2	12.3	10.5	20.5
TWE156	4500	7644	46	34	30	22	14.1	10.5	9.2	6.6
	5000	8497	49	39	34	25	14.9	12.0	10.3	7.6
	5500	9346	53	45	37	28	16.2	13.6	11.4	8.5
	6000	10195	58	50	41	31	17.7	15.1	12.5	9.3
TWE201	6000	10195	53	43	36	28	16.0	13.1	10.9	8.6
	6680	11348	57	48	40	31	17.5	14.5	12.1	9.4
	7350	12488	62	52	44	33	18.8	16.0	13.3	10.0
	8030	13645	65	57	47	35	19.8	17.4	14.5	10.5

Table 103. Discharge plenum and grille assembly throw distance — air handler — ft (m) (continued)

Unit Model No.	CFM	m^3/h	Louver angle Deflection Position (ft)				Louver angle Deflection Position (m)			
			Straight	20°	40°	55°	Straight	20°	40°	55°
TWE251	7500	12742	62	52	44	33	18.8	16.0	13.3	10.0
	8350	14187	67	59	49	36	20.4	18.0	14.9	11.0
	9200	15631	73	65	54	40	22.3	19.8	16.5	12.2
	10050	17075	78	70	59	43	23.8	21.3	18.0	13.1

Note: 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 as follows:
for 50 FPM (0.25 m/s) terminal velocity, multiply by 1.50 throw factor;
for 100 FPM (0.51 m/s) terminal velocity, multiply by 0.75 throw factor;
for 150 FPM (0.76 m/s) terminal velocity, multiply by 0.50 throw factor.

Table 104. Static pressure drop through accessories (inches of water column) — air handler

Unit Model No.	CFM	m^3/h	Return Grille		2" MERV 13 Filter	Discharge Plenum & Grille[b]		Electric Heaters (kW)							
								5–10		15–20		25–30		35–50	
			in. wc	Pascal		in. wc	Pascal	in. wc	Pascal	in. wc	Pascal	in. wc	Pascal	in. wc	Pascal
TWE051	1400	2379	0.09	23.60	0.19	0.16	41.10	0.06	16.20	0.05	13.70	0.09	23.60	—	—
	1700	2889	0.14	34.90	0.24	0.24	60.60	0.09	23.90	0.08	20.20	0.14	34.90	—	—
	2000	3398	0.18	45.70	0.29	0.33	83.80	0.13	33.00	0.13	33.00	0.19	48.30	—	—
TWE072	1600	2718	0.03	9.51	0.12	0.11	28.91	0.03	7.47	0.03	7.47	0.06	14.94	0.06	14.94
	2000	3398	0.04	14.70	0.15	0.18	45.20	0.03	7.47	0.05	12.45	0.08	19.93	0.10	24.91
	2400	4078	0.06	21.11	0.19	0.26	65.07	0.04	9.96	0.07	17.44	0.11	27.40	0.15	37.36
TWE076	2000	3398	0.06	14.70	0.15	0.18	45.20	0.03	6.80	0.05	13.50	0.08	19.20	0.10	26.00
	2500	4248	0.09	22.90	0.20	0.28	70.60	0.04	10.60	0.08	21.20	0.12	30.00	0.16	40.60
	3000	5098	0.13	33.00	0.25	0.40	101.60	0.06	15.20	0.12	30.50	0.17	43.20	0.23	58.40
TWE101	2600	4418	0.05	11.70	0.15	0.28	72.10	0.04	10.10	0.09	21.80	0.13	31.90	0.17	43.60
	3300	5607	0.07	18.90	0.20	0.46	116.20	0.06	16.20	0.14	35.10	0.20	51.30	0.28	70.20
	4000	6797	0.11	27.80	0.25	0.67	170.70	0.09	23.80	0.20	51.60	0.30	75.40	0.41	103.20
TWE126	3200	5436	0.04	10.20	0.12	0.10	25.60	0.01	2.50	0.02	5.00	0.03	7.50	0.04	10.00
	4000	6797	0.06	15.90	0.15	0.16	39.90	0.02	5.00	0.03	7.50	0.04	10.00	0.06	15.00
	4800	8156	0.09	22.90	0.19	0.23	57.50	0.03	7.50	0.03	7.50	0.06	15.00	0.08	20.00
TWE156	4000	6797	0.07	16.90	0.15	0.15	38.40	0.02	3.80	0.03	6.80	0.05	13.50	0.08	19.20
	5000	8496	0.10	26.50	0.20	0.24	60.00	0.04	10.60	0.04	10.60	0.08	21.20	0.12	30.00
	6000	10195	0.15	38.10	0.25	0.34	86.40	0.06	15.20	0.06	15.20	0.12	30.50	0.17	43.20
TWE201	5200	8836	0.07	18.40	0.17	0.30	73.80	0.04	10.60	0.04	10.60	0.08	21.10	0.13	31.70
	6650	11300	0.12	30.20	0.23	0.46	114.90	0.07	17.30	0.07	17.30	0.14	34.50	0.21	51.80
	7800	13254	0.16	41.50	0.28	0.63	156.10	0.10	23.80	0.10	23.80	0.19	47.50	0.29	71.30
TWE251	7500	12742	0.15	37.70	0.27	0.58	144.60	0.09	21.80	0.09	21.80	0.18	44.10	0.26	65.90
	8350	14187	0.18	45.60	0.30	0.72	178.60	0.11	27.10	0.11	27.10	0.22	54.00	0.33	81.10
	9200	15631	0.22	53.60	0.34	0.87	216.80	0.13	32.40	0.13	32.40	0.26	64.50	0.39	96.90

Notes:
1. Return air filter ESP included in Fan Performance Table data.
2. On discharge plenum and grille - at louver opening angle of 42 degrees. For ESP at other angle openings, see accessory installation instruction.

Table 105. 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
TWE0514DA, 0724DB, 0764DA/B, 1014DA/B	5.00	1	5.00	17,065	—	—	5.00	17,065
	9.96	1	9.96	33,993	—	—	9.96	33,993
	14.96	1	14.96	51,058	—	—	14.96	51,058
	24.92	2	14.96	51,058	9.96	33993	24.92	85,051
TWE0724DB, 0764DA/B, 1014DA/B	34.88	2	19.92	67,987	14.96	51058	34.88	119,045

Table 105. Auxiliary electric heat capacity — air handler (continued)

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
TWE1264DB, 1564DB, 2014DB, 2514DB	10.00	1	10.00	34,130	—	—	10.00	34,130
	19.92	1	19.92	67,987	—	—	19.92	67,987
	29.92	2	19.92	67,987	10.00	34130	29.92	102,117
	49.84	2	29.92	102,117	19.92	67987	49.84	170,104

Note: Heaters are rated at 240V, 480V and 600V. For other than rated voltage, capacity = (Voltage/Related Voltage)^2 x Rated Capacity

Zone Controls

Zone Sensors

Zone Sensors are the building occupant's comfort control devices. Zone sensors are required for SZVAV applications. The following zone sensor options are available for units with Symbio 700 control.

Manual Changeover	Heat, Cool or Off System Switch. Fan Auto or Off Switch. One temperature setpoint lever.
Manual/Automatic Changeover	Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.
Manual/Automatic Changeover	Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.
Integrated Comfort™ System	Sensor(s) available with optional temperature adjustment and override buttons to provide central control through a Trane Integrated Comfort™ system.
Remote Sensor	Sensor(s) available for all zone sensors to provide remote sensing capabilities.

Conventional Thermostats

Note: *All thermostats may be used with Symbio 700 units.*

Non-Programmable Thermostats	
TCONT102* (1H/1C) Common terminal not required	Auto-changeover Backlit Display and Keys Filter Reminder Keypad Lock
TCONT103* (2H/1C) Common terminal required	Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock Outdoor Temp Sensor Available
TCONT402* (3H/2C) Common terminal required	Auto-changeover Backlit Display & Keys Filter Reminder Keypad Lock Outdoor Temp Sensor Included
Programmable Thermostats	
TCONT202* (1H/1C) Common terminal preferred, not required	5/2 or 5/1/1 Programming Actual and Setpoint temps displayed simultaneously
TCONT203* (4H/2C) Common terminal preferred, not required	5/2 or 5/1/1 Programming Actual and Setpoint temps displayed simultaneously
TCONT302* (4H/2C) Common terminal preferred, not required	Interactive touchscreen Large display Real time clock
TCONT303* (4H/2C) Humidity Sensor Common terminal preferred, not required	Interactive touchscreen Large display Real time clock Built-in humidity sensor

Electrical Data

Cooling Condenser

Table 106. Electrical characteristics — compressor and condenser fan motors — 50 Hz

Tons	Unit Model Number	Compressor Motors						Condenser Fan Motor				
				Compressor 1		Compressor 2					Amps	
		Volts	Phase	RLA (Amps)	LRA (Amps)	RLA (Amps)	LRA (Amps)	No.	Volts	Phase	FLA (Ea.)	LRA (Ea.)
5	TTA0604DA	380/415	3	8.0	67.0	N/A	N/A	1	380/415	3	1.3	4.2
	TTA0604DD	380/415	3	5.4	38.0	5.4	38.0	1	380/415	3	1.3	4.2
6.25	TTA0764DA	380/415	3	12.9	98.0	N/A	N/A	1	380/415	3	1.3	4.2
	TTA0764DD	380/415	3	6.0	43.0	6.0	43.0	1	380/415	3	1.3	4.2
8.33	TTA1014DD	380/415	3	7.2	52.0	7.2	52.0	1	380/415	3	2.7	9.5
	TTA1014DC	380/415	3	7.8	52.0	7.8	52.0	1	380/415	3	2.7	9.5
10.4	TTA1264DD	380/415	3	11.4	75.0	11.4	75.0	1	380/415	3	2.7	9.5
13	TTA1564DD	380/415	3	12.9	98.0	12.9	98.0	1	380/415	3	2.7	9.5
	TTA1564DC	380/415	3	12.9	98.0	12.9	98.0	1	380/415	3	2.7	9.5
16.7	TTA2014DD	380/415	3	16.5	140.0	14.8	130.0	1	380/415	3	2.7	9.5
	TTA2014DC	380/415	3	18.6	142.0	18.6	142.0	1	380/415	3	2.7	9.5
20.9	TTA2514DC	380/415	4	19.2	147.0	19.2	147.0	1	380/415	3	2.7	9.5

Note: Electrical characteristics reflect nameplate values and are calculated in accordance with UL specifications.

Table 107. Unit wiring — condensing units — 50 Hz

Tons	Unit Model Number	Volts	Minimum Circuit Ampacity	Maximum Fuse or Circuit Breaker Size
5	TTA0604DA	380/415	11	15
	TTA0604DD	380/415	13	15
6.25	TTA0764DA	380/415	17	30
	TTA0764DD	380/415	15	20
8.33	TTA1014DD	380/415	19	25
	TTA1014DC	380/415	20	25
10.4	TTA1264DD	380/415	28	35
13	TTA1564DD	380/415	34	45
	TTA1564DC	380/415	34	45
16.7	TTA2014DD	380/415	41	50
	TTA2014DC	380/415	47	60
20.9	TTA2514DC	380/415	49	60

Air Handler

Table 108. Electrical characteristics — standard motor — 50 Hz air handler

Tons	Unit Model Number	Standard Evaporator Fan Motor							
		No.	Volts	Phase	HP	Amps		MCA	MOP
						FLA	LRA		
4.6	TWE0514DA	1	380-415	3	0.75	1.5	8.2	2	15
6	TWE0724DB	1	380-415	3	1.00	2.5	17.0	3	15
6.25	TWE0764DA, B	1	380-415	3	1.00	2.5	17.0	3	15
8.33	TWE1014DA, B	1	380-415	3	1.50	3.5	26.2	4	15
10.4	TWE1264DB	1	380-415	3	2.00	3.2	35.0	4	15
13	TWE1564DB	1	380-415	3	2.00	4.6	39.3	6	15
16.7	TWE2014DB	1	380-415	3	3.50	8.0	43.2	10	15
20.9	TWE2514DB	1	380-415	3	5.00	7.5	71.0	9	15

Table 109. Unit wiring with electric heat (single point connection) — air handlers

Ton	Used With	Heater Model No.	Heater kW Rating	Unit Power Supply	Control Stages	Min Circuit Ampacity	Max Fuse or Circuit Breaker Size
4.6	TWE0514DA	BAYHTRN405*	3.13	380/3/50	1	8	15
		BAYHTRR410*	6.25	380/3/50	1	14	15
		BAYHTRR415*	9.37	380/3/50	1	20	20
		BAYHTRN425*	15.63	380/3/50	2	32	35
		BAYHTRN405*	3.74	415/3/50	1	8	15
		BAYHTRR410*	7.46	415/3/50	1	15	15
		BAYHTRR415*	11.17	415/3/50	1	21	25
		BAYHTRN425*	18.64	415/3/50	2	34	35
6	TWE0724DB	BAYHTRN405*	3.13	380/3/50	1	9	15
		BAYHTRR410*	6.25	380/3/50	1	15	20
		BAYHTRR415*	9.37	380/3/50	1	21	25
		BAYHTRN425*	15.63	380/3/50	2	33	35
		BAYHTRN405*	3.74	415/3/50	1	10	15
		BAYHTRR410*	7.46	415/3/50	1	16	20
		BAYHTRR415*	11.17	415/3/50	1	23	25
		BAYHTRN425*	18.64	415/3/50	2	36	40
6.25	TWE0764DA, B	BAYHTRN405*	3.13	380/3/50	1	9	15
		BAYHTRR410*	6.25	380/3/50	1	15	20
		BAYHTRR415*	9.37	380/3/50	1	21	25
		BAYHTRN425*	15.63	380/3/50	2	33	35
		BAYHTRN405*	3.74	415/3/50	1	10	15
		BAYHTRR410*	7.46	415/3/50	1	16	20
		BAYHTRR415*	11.17	415/3/50	1	23	25
		BAYHTRN425*	18.64	415/3/50	2	36	40

Table 109. Unit wiring with electric heat (single point connection) — air handlers (continued)

Ton	Used With	Heater Model No.	Heater kW Rating	Unit Power Supply	Control Stages	Min Circuit Ampacity	Max Fuse or Circuit Breaker Size
8.33	TWE1014DA, B	BAYHTRN405*	3.13	380/3/50	1	10	15
		BAYHTRR410*	6.25	380/3/50	1	16	20
		BAYHTRR415*	9.37	380/3/50	1	22	25
		BAYHTRN425*	15.63	380/3/50	2	33	35
		BAYHTRN435*	21.86	380/3/50	2	45	50
		BAYHTRN405*	3.74	415/3/50	1	10	15
		BAYHTRR410*	7.46	415/3/50	1	17	20
		BAYHTRR415*	11.17	415/3/50	1	23	25
		BAYHTRN425*	18.64	415/3/50	2	36	40
		BAYHTRN435*	26.08	415/3/50	2	49	50
10.4	TWE1264DB	BAYHTRP410*	6.25	380/3/50	1	16	20
		BAYHTRP420*	12.5	380/3/50	1	28	30
		BAYHTRP430*	18.76	380/3/50	2	40	40
		BAYHTRP450*	31.26	380/3/50	2	63	70
		BAYHTRP410*	7.46	415/3/50	1	17	20
		BAYHTRP420*	14.92	415/3/50	1	30	30
		BAYHTRP430*	22.38	415/3/50	2	43	45
		BAYHTRP450*	37.29	415/3/50	2	69	70
13	TWE1564DB	BAYHTRP410*	6.25	380/3/50	1	18	20
		BAYHTRP420*	12.5	380/3/50	1	30	30
		BAYHTRP430*	18.76	380/3/50	2	41	45
		BAYHTRP450*	31.26	380/3/50	2	65	70
		BAYHTRP410*	7.46	415/3/50	1	19	20
		BAYHTRP420*	14.92	415/3/50	1	32	35
		BAYHTRP430*	22.38	415/3/50	2	45	45
		BAYHTRP450*	37.29	415/3/50	2	71	80
16.7	TWE2014DB	BAYHTRP410*	6.25	380/3/50	1	22	25
		BAYHTRP420*	12.5	380/3/50	1	34	35
		BAYHTRP430*	18.76	380/3/50	2	46	50
		BAYHTRP450*	31.26	380/3/50	2	69	70
		BAYHTRP410*	7.46	415/3/50	1	23	25
		BAYHTRP420*	14.92	415/3/50	1	36	40
		BAYHTRP430*	22.38	415/3/50	2	49	50
		BAYHTRP450*	37.29	415/3/50	2	75	80

Table 109. Unit wiring with electric heat (single point connection) — air handlers (continued)

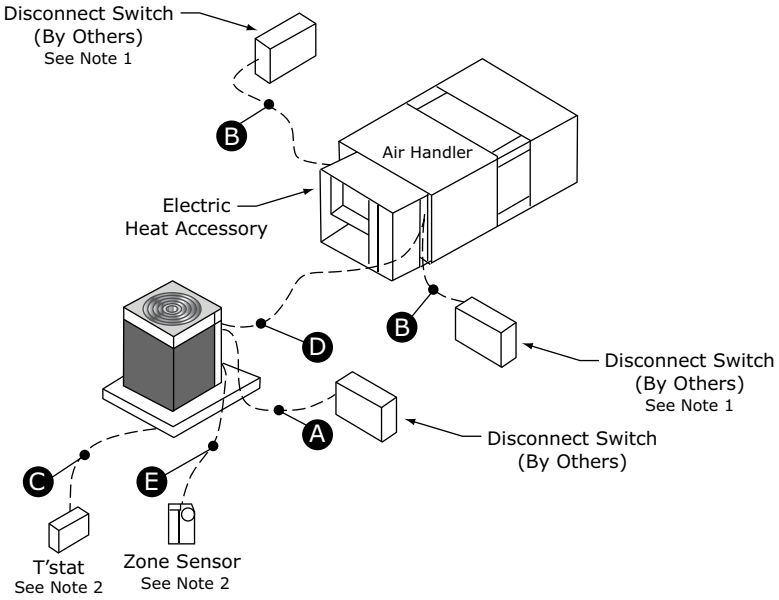
Ton	Used With	Heater Model No.	Heater kW Rating	Unit Power Supply	Control Stages	Min Circuit Ampacity	Max Fuse or Circuit Breaker Size
20.9	TWE2514DB	BAYHTRP410*	6.25	380/3/50	1	21	25
		BAYHTRP420*	12.5	380/3/50	1	33	35
		BAYHTRP430*	18.76	380/3/50	2	45	50
		BAYHTRP450*	31.26	380/3/50	2	69	70
		BAYHTRP410*	7.46	415/3/50	1	22	25
		BAYHTRP420*	14.92	415/3/50	1	35	40
		BAYHTRP430*	22.38	415/3/50	2	48	50
		BAYHTRP450*	37.29	415/3/50	2	74	80

Jobsite Connections

Symbio™ Controls

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 NEC and local electrical codes. Codes may require line of sight between disconnect switch and unit.

Figure 7. Symbio™ jobsite connections



Power Wires

A. 3 wires, line voltage for 3 phase, (2 wires for single phase) 1 grounding wire

B. 3 wires, line voltage for 3 phase, (2 wires for single phase) 1 grounding wire

Control Wires

C. Cooling only (or Cooling with Heat) thermostat: 4 to 7 wires depending on stages of cooling and electric heat

D. Wiring between indoor and outdoor unit: 5 to 11 wires depending on unit control options*

E. Zone Sensor: 4 to 7 wires depending on zone sensor model*

Communication signal wires require shielded twisted pairs.

Use factory-supplied 165 ft. length of Comlink cable with a PVC jacket, 18/1 PR, stranded shield, 25 PF/FT plenum rated for the field communication signal wiring.

Notes:

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.*
2. ****Choose only one of the following; Thermostat, Mechanical Zone Sensor, Programmable Zone Sensor Panel or BAS Zone Sensor.*

Important: *For the EDC switch to be functional and thereby facilitate reliable unit operation, make the EDC connections from the indoor to the outdoor control boxes.*

Table 110. Recommended thermostat wire size

Wire Size	Maximum Wire Length
(Gauge)	Physical distance between Unit & T'stat
22	30 Feet
20	50 Feet
18	75 Feet
16	125 Feet
14	200 Feet

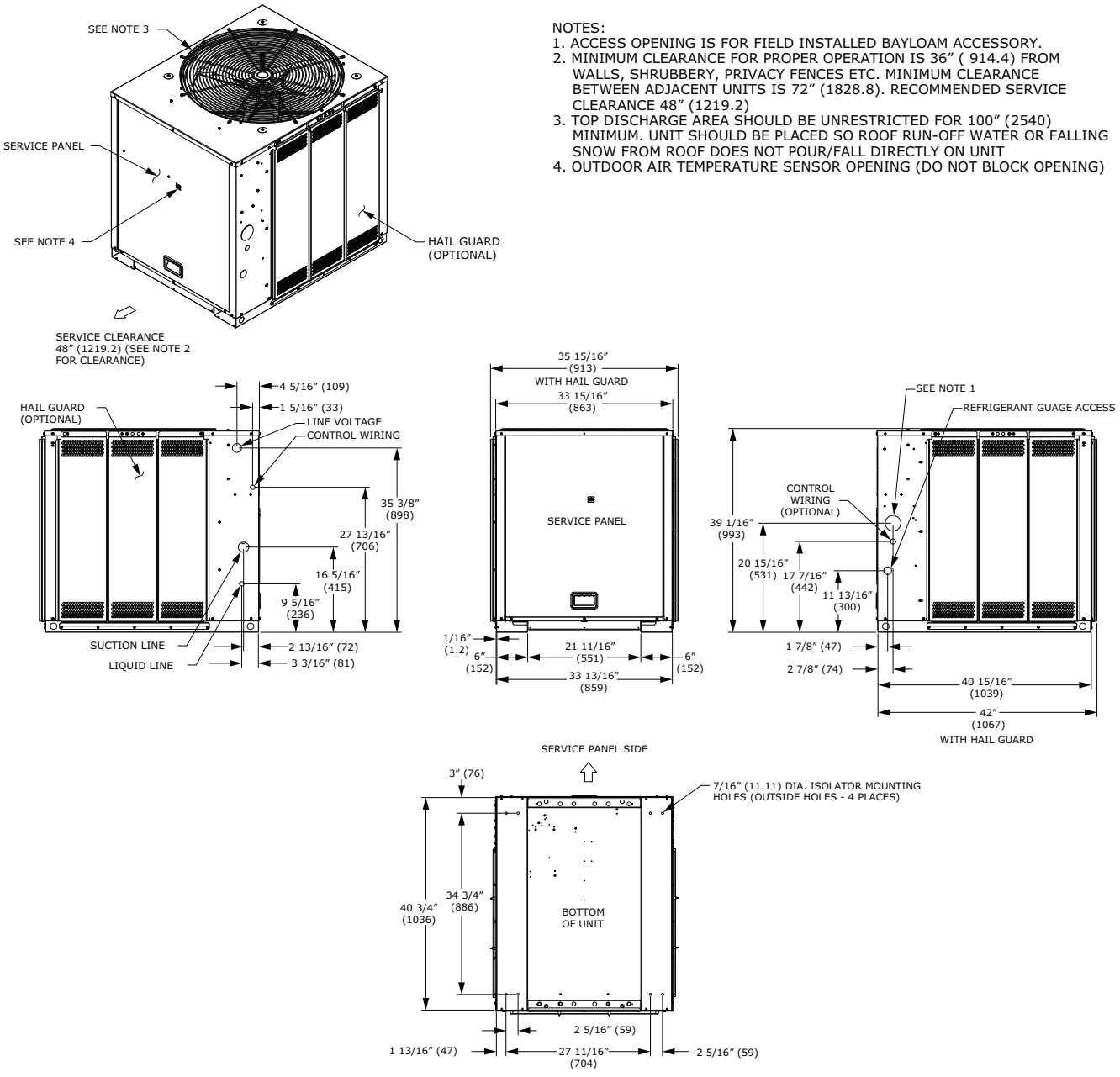
Table 111. Zone sensor module wiring

Distance from Unit to Control	Recommended Wire Size
0-150 feet (0-45.7 m)	22 gauge (0.33 mm^2)
151-240 feet (46-73.1 m)	20 gauge (0.50 mm^2)
241-305 feet (73.5-117.3 m)	18 gauge (0.75 mm^2)
386-610 feet (117.7-185.9 m)	16 gauge (1.31 mm^2)
611-970 feet (186.2-295.7 m)	14 gauge (2.08 mm^2)

Dimensional Data

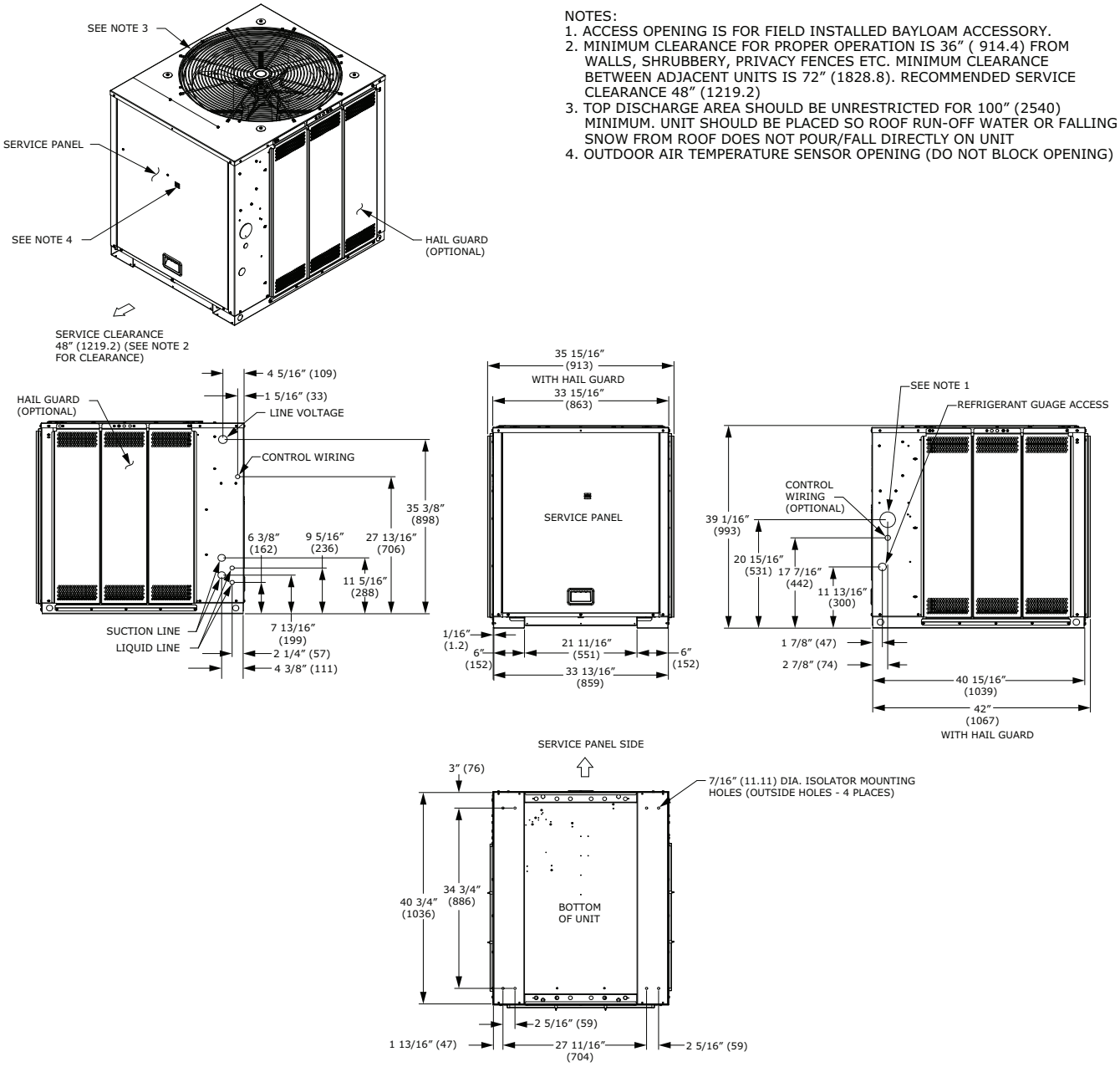
Cooling Condenser

Figure 8. 5, 6.25 ton condensing, single compressor – in (mm)



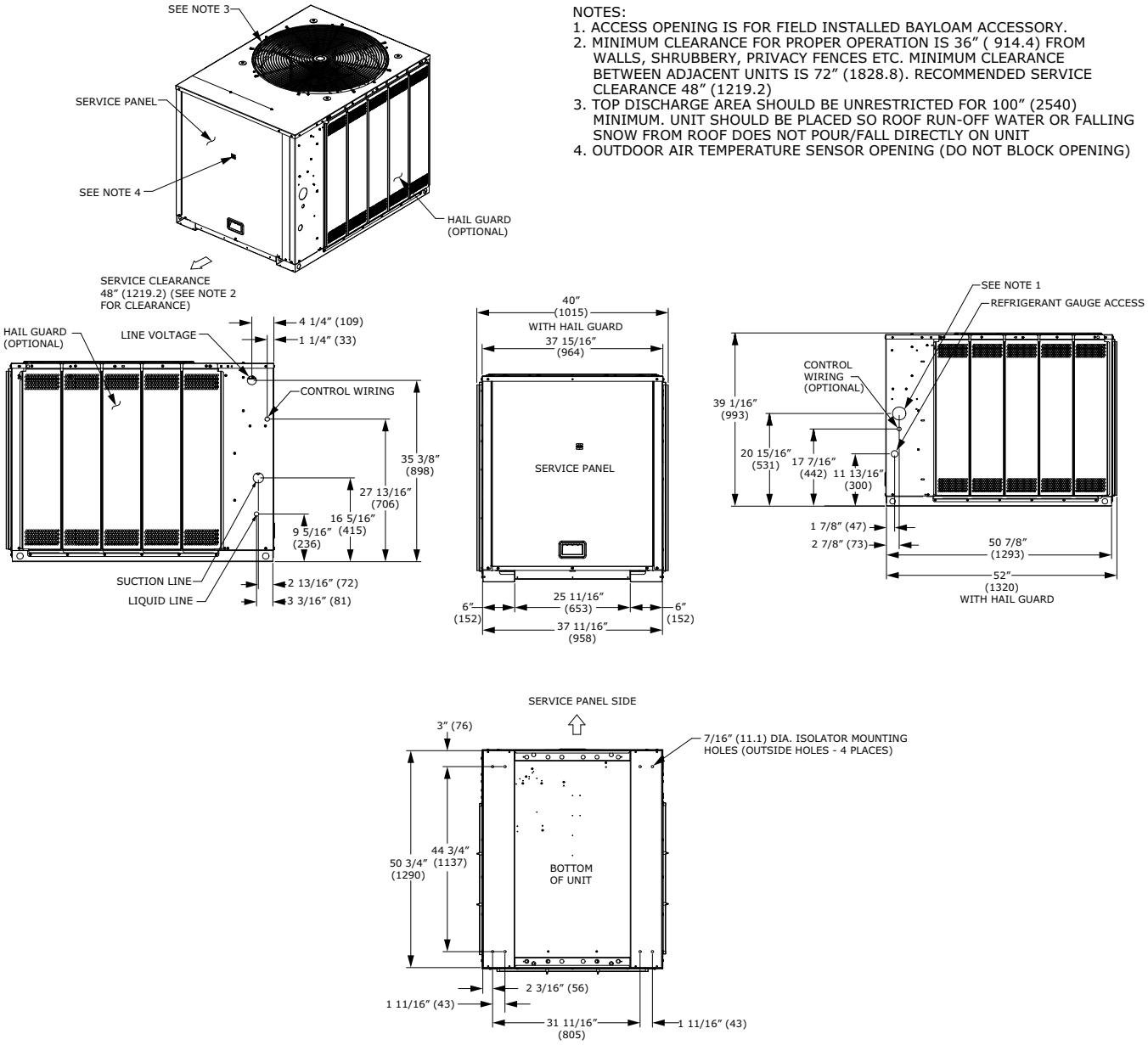
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)

Figure 9. 5, 6.25 ton condensing, dual compressor – in (mm)



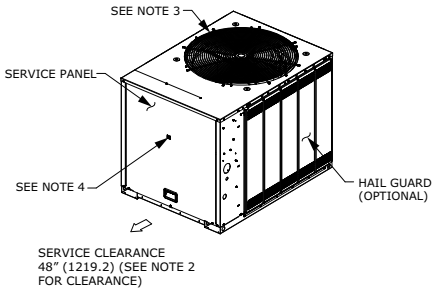
NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)

Figure 10. 8.33 ton condensing, manifolded compressor – in (mm)

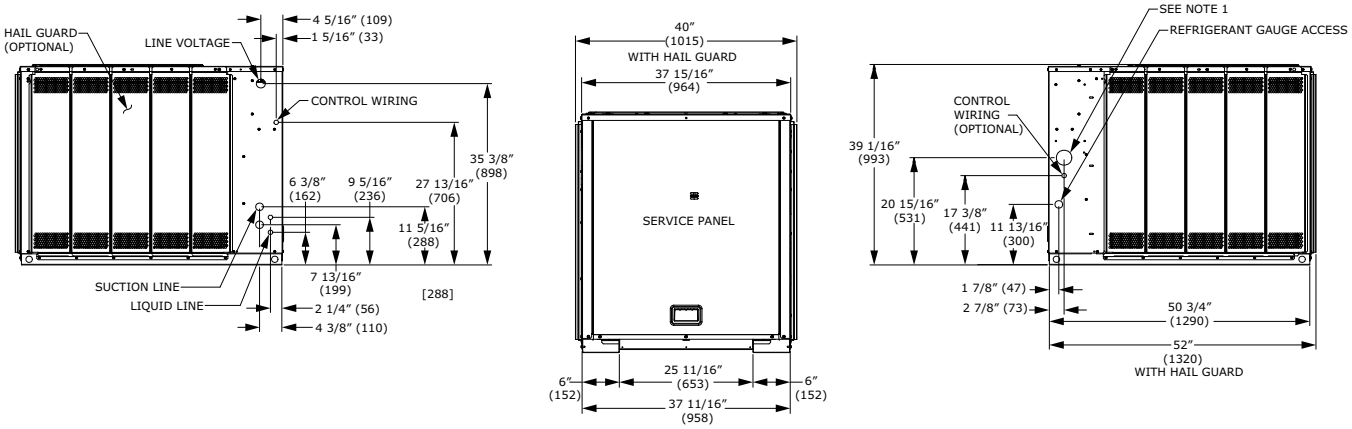


NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)

Figure 11. 8.33 ton condensing, dual compressor – in (mm)



NOTES:
1. ACCESS OPENING IS FOR FIELD INSTALLED BAYLOAM ACCESSORY.
2. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
3. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
4. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)



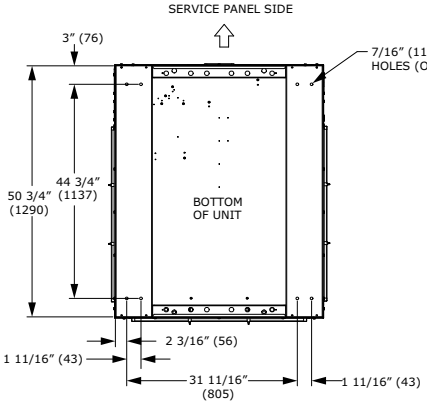
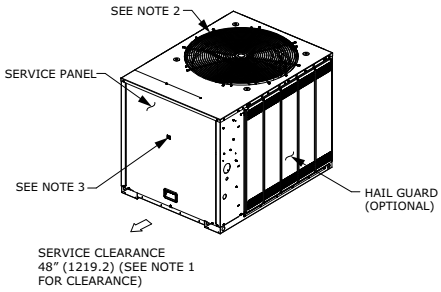
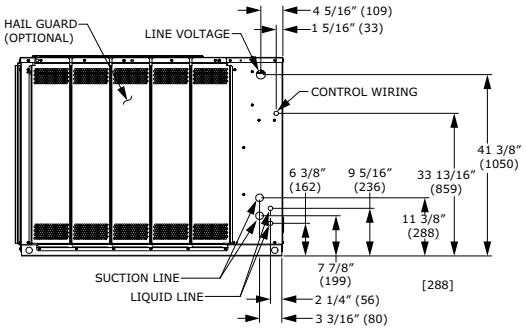


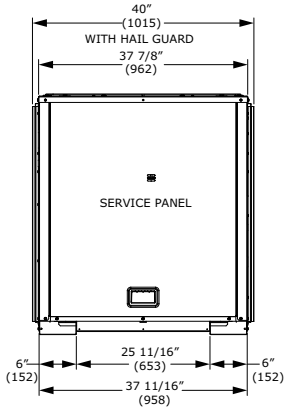
Figure 12. 10.4 ton condensing, dual compressor – in (mm)

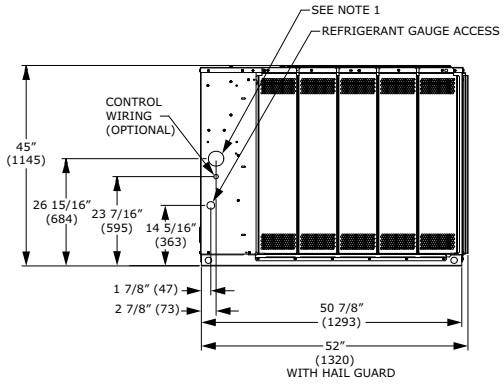


NOTES:

1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
2. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
3. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)







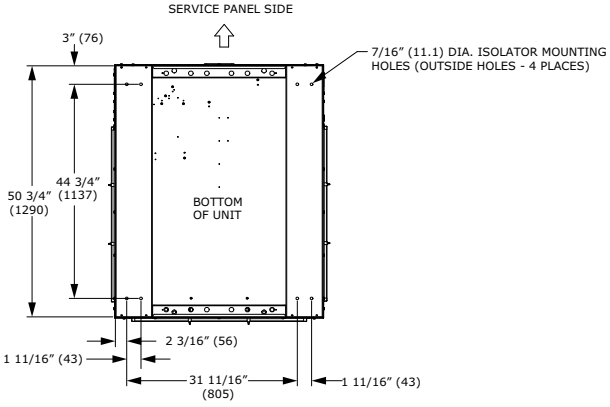


Figure 13. 13, 16.7 ton condensing, dual compressor – in (mm)

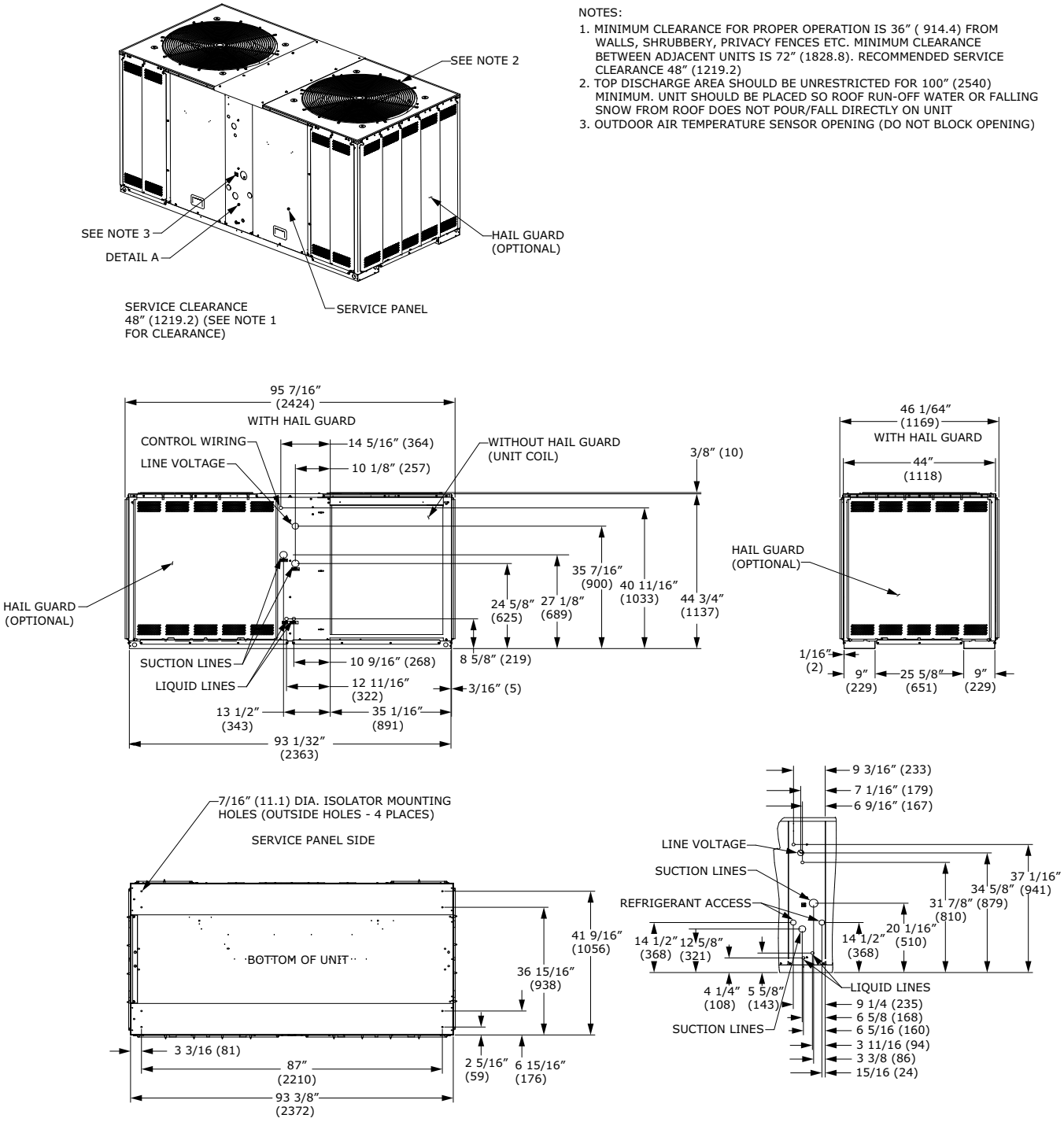


Figure 14. 13, 16.7 ton condensing, manifolded compressor – in (mm)

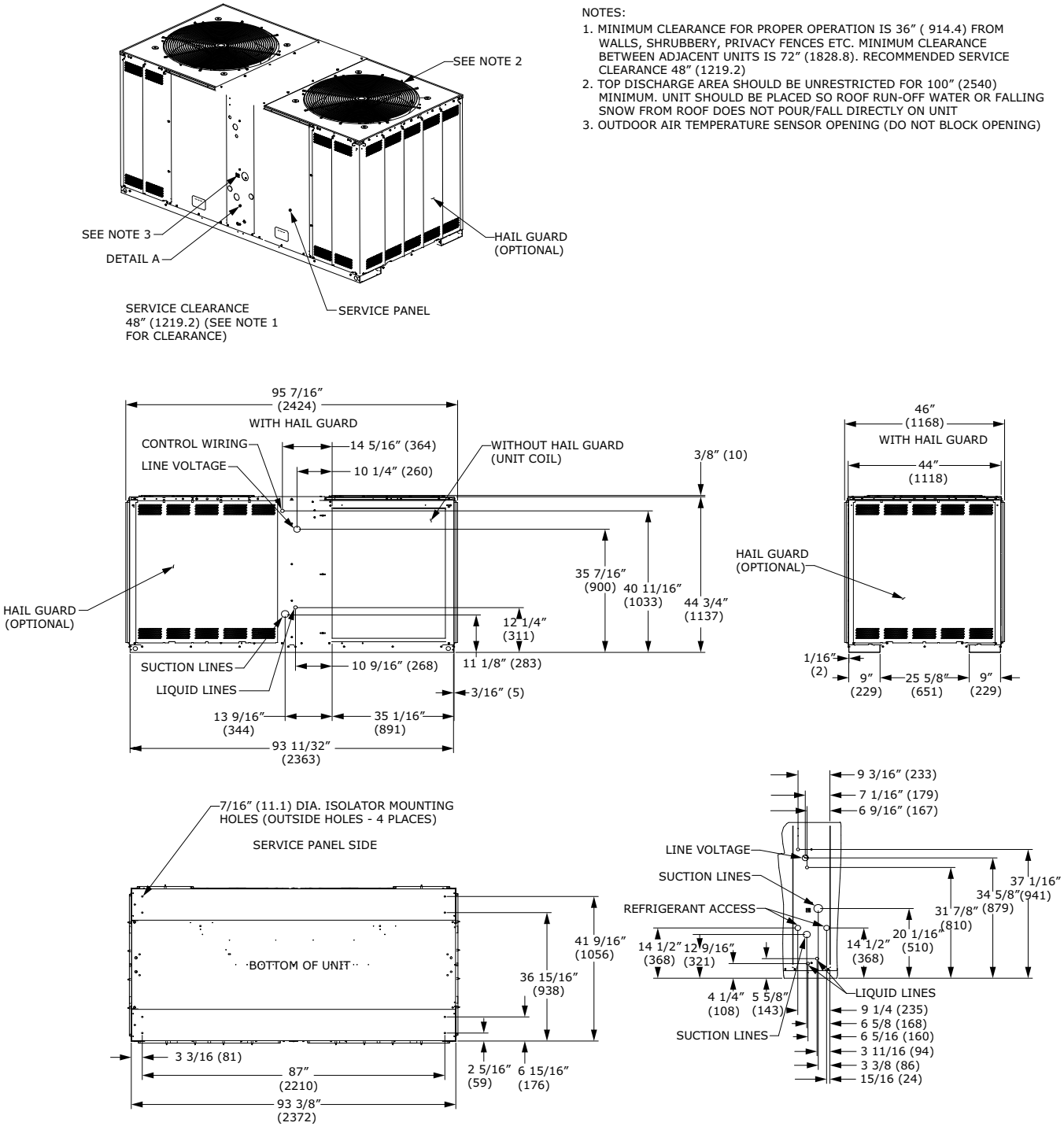
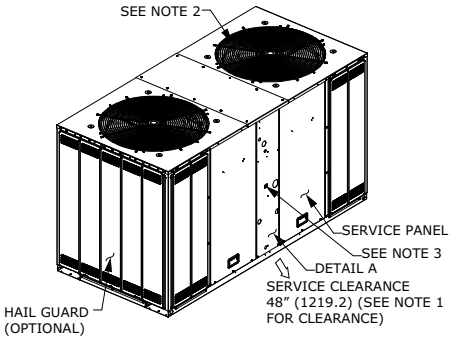
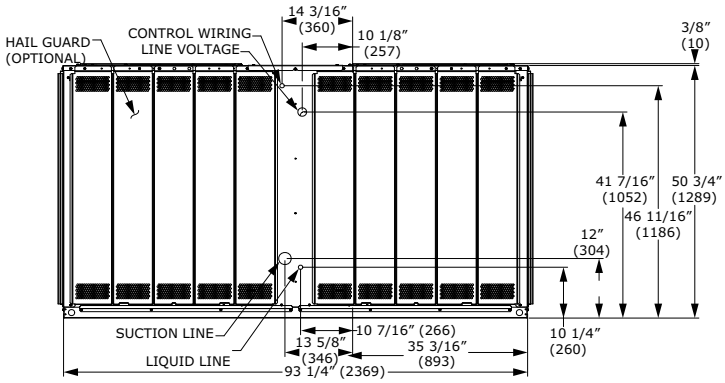


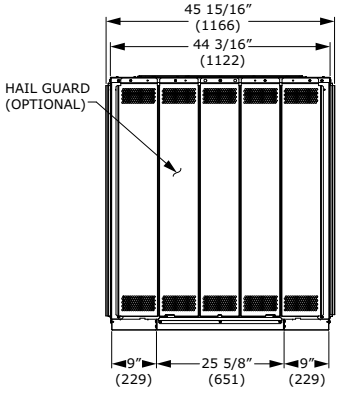
Figure 15. 20.9 ton condensing, manifolded compressor – in (mm)

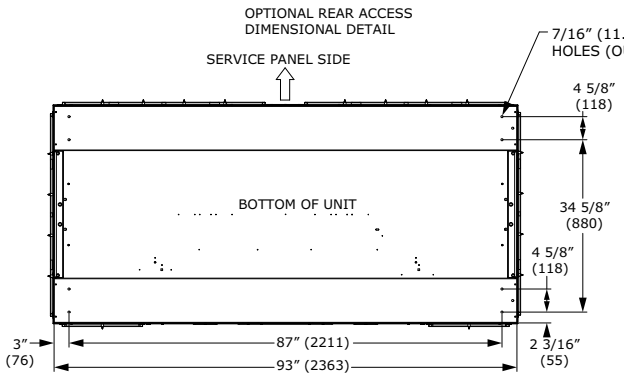


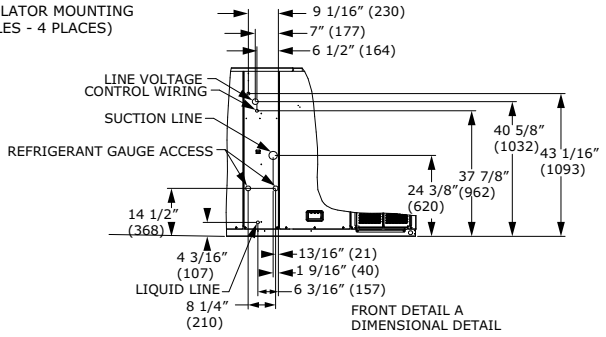
NOTES:

1. MINIMUM CLEARANCE FOR PROPER OPERATION IS 36" (914.4) FROM WALLS, SHRUBBERY, PRIVACY FENCES ETC. MINIMUM CLEARANCE BETWEEN ADJACENT UNITS IS 72" (1828.8). RECOMMENDED SERVICE CLEARANCE 48" (1219.2)
2. TOP DISCHARGE AREA SHOULD BE UNRESTRICTED FOR 100" (2540) MINIMUM. UNIT SHOULD BE PLACED SO ROOF RUN-OFF WATER OR FALLING SNOW FROM ROOF DOES NOT POUR/FALL DIRECTLY ON UNIT
3. OUTDOOR AIR TEMPERATURE SENSOR OPENING (DO NOT BLOCK OPENING)









Air Handler

Figure 16. 4.6 ton air handler, single circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON 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 DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.

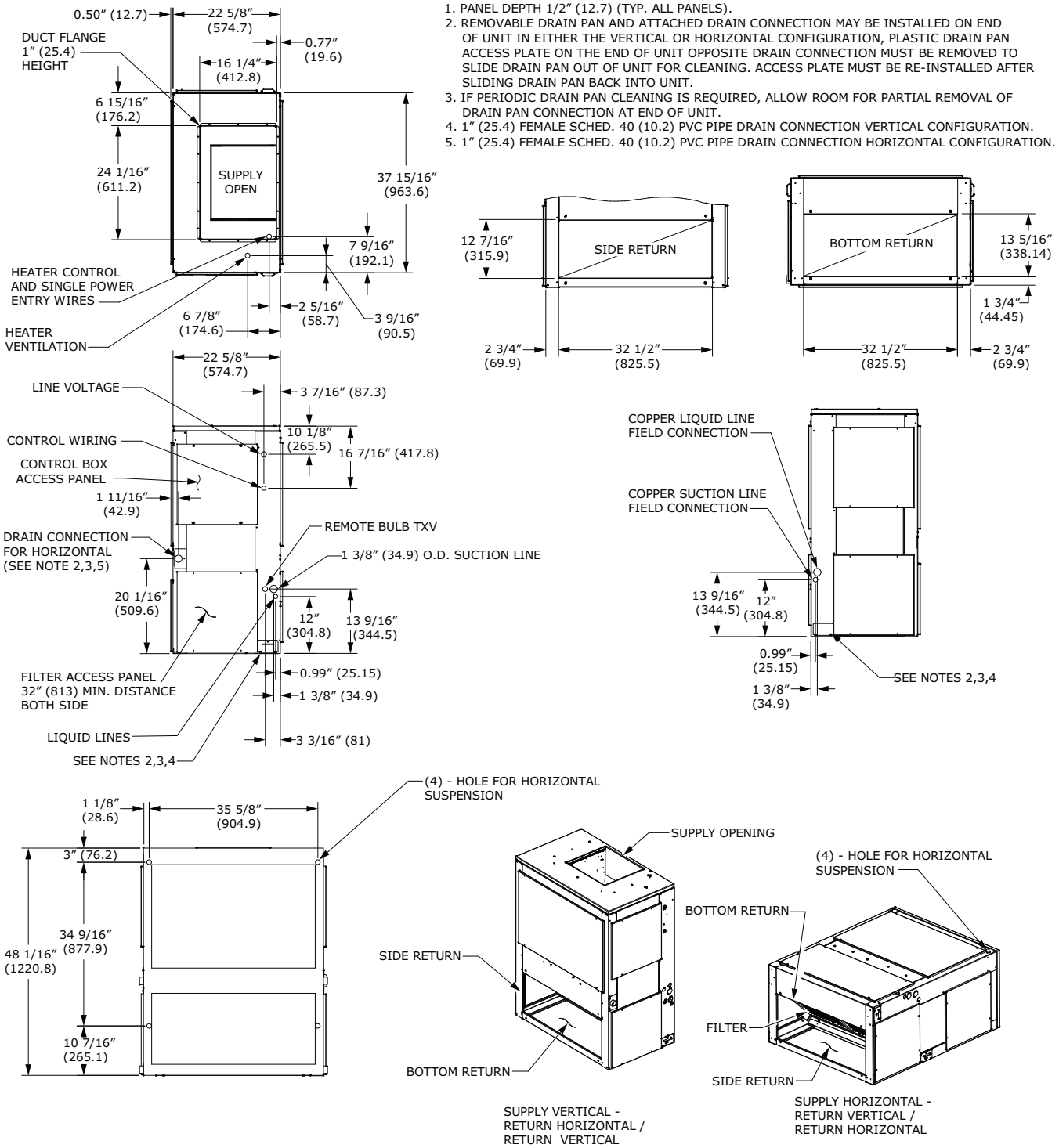


Figure 17. 6.25 ton air handler, single circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

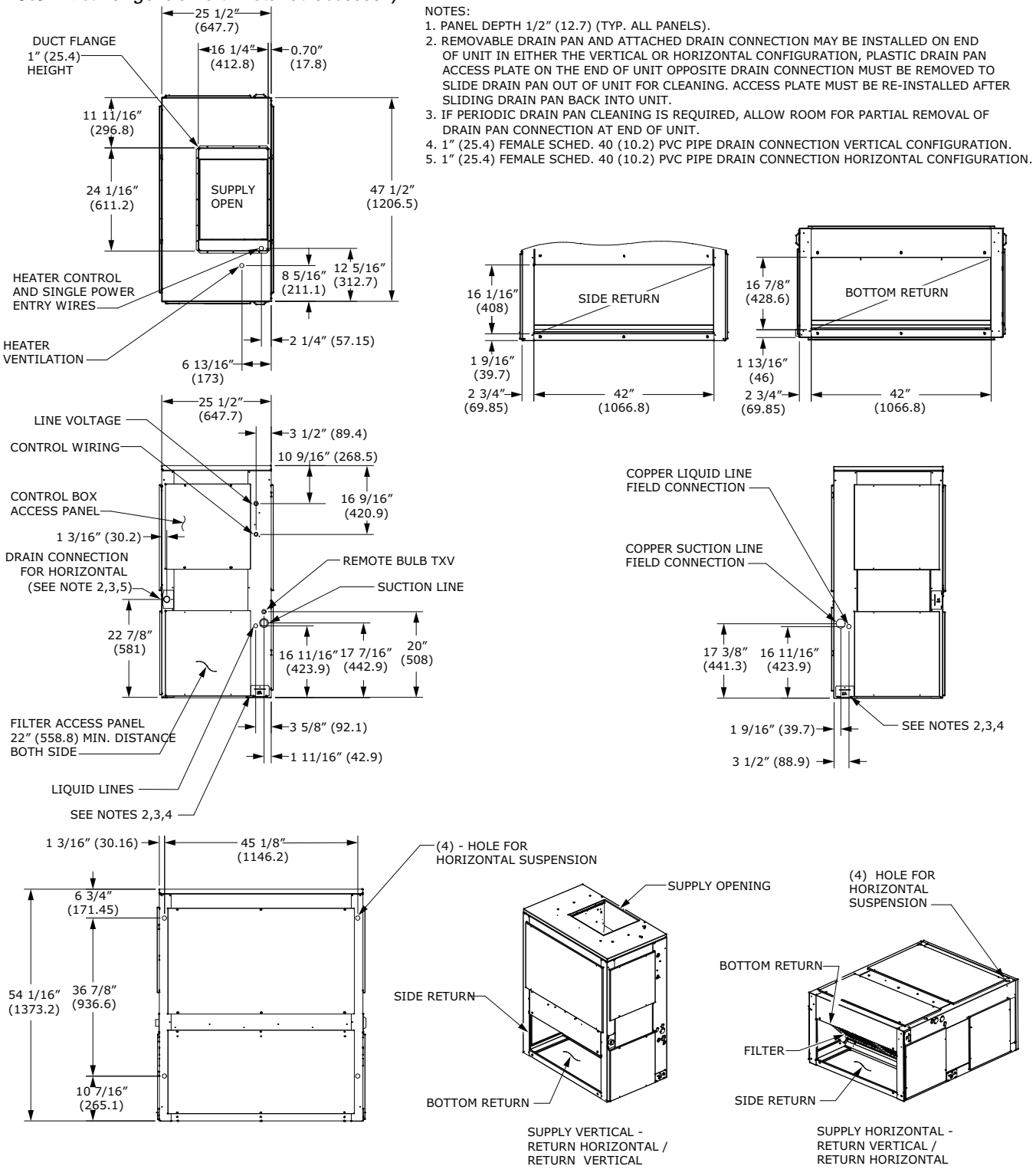


Figure 18. 8.33 ton air handler, single circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

NOTES:
1. PANEL DEPTH 1/2″ (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON 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 DRAIN PAN CONNECTION AT END OF UNIT.
4. 1″ (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1″ (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.

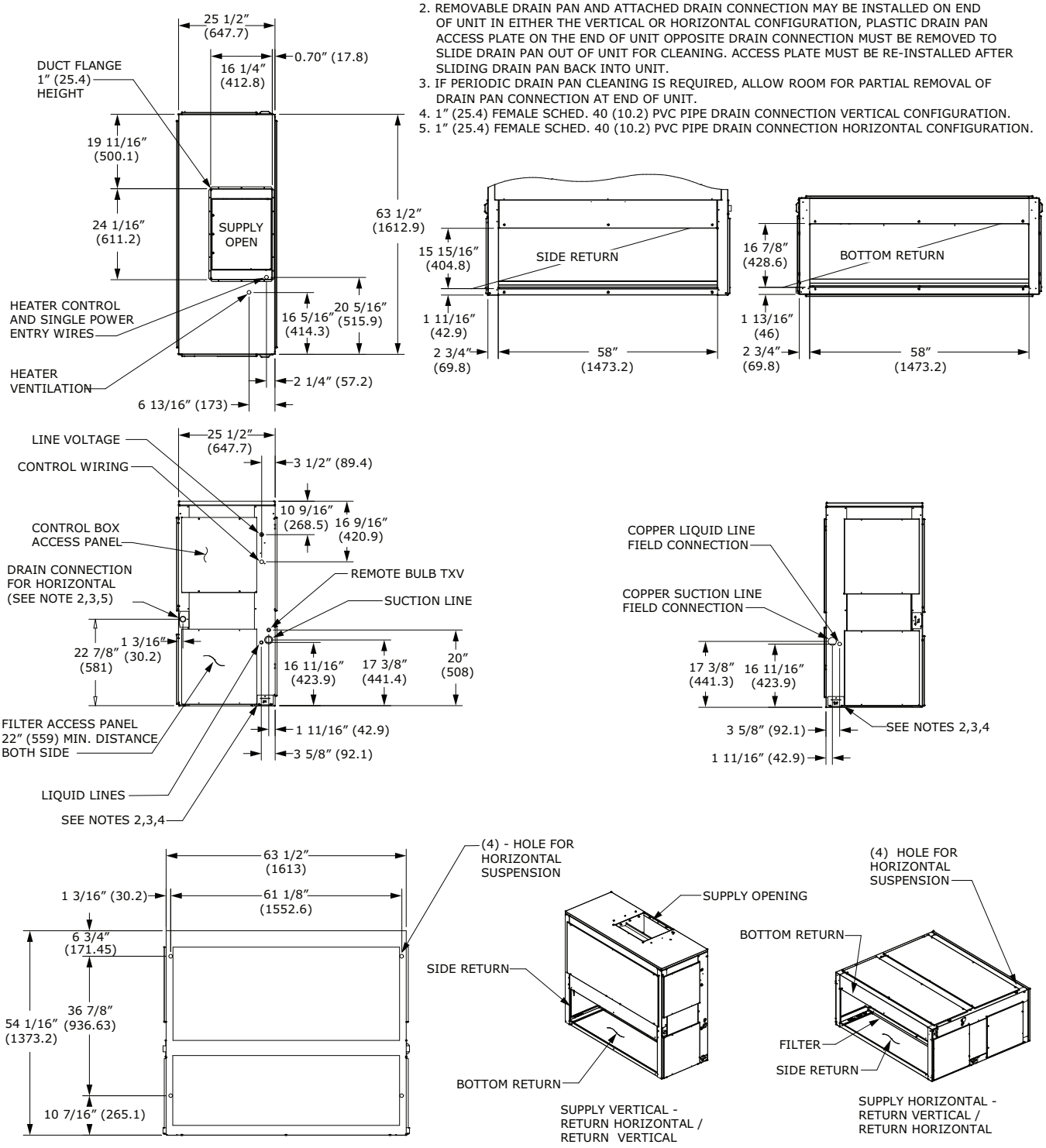


Figure 19. 8.33 ton air handler, dual circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

NOTES:
1. PANEL DEPTH 1/2" (12.7) (TYP. ALL PANELS).
2. REMOVABLE DRAIN PAN AND ATTACHED DRAIN CONNECTION MAY BE INSTALLED ON 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 DRAIN PAN CONNECTION AT END OF UNIT.
4. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION VERTICAL CONFIGURATION.
5. 1" (25.4) FEMALE SCHED. 40 (10.2) PVC PIPE DRAIN CONNECTION HORIZONTAL CONFIGURATION.

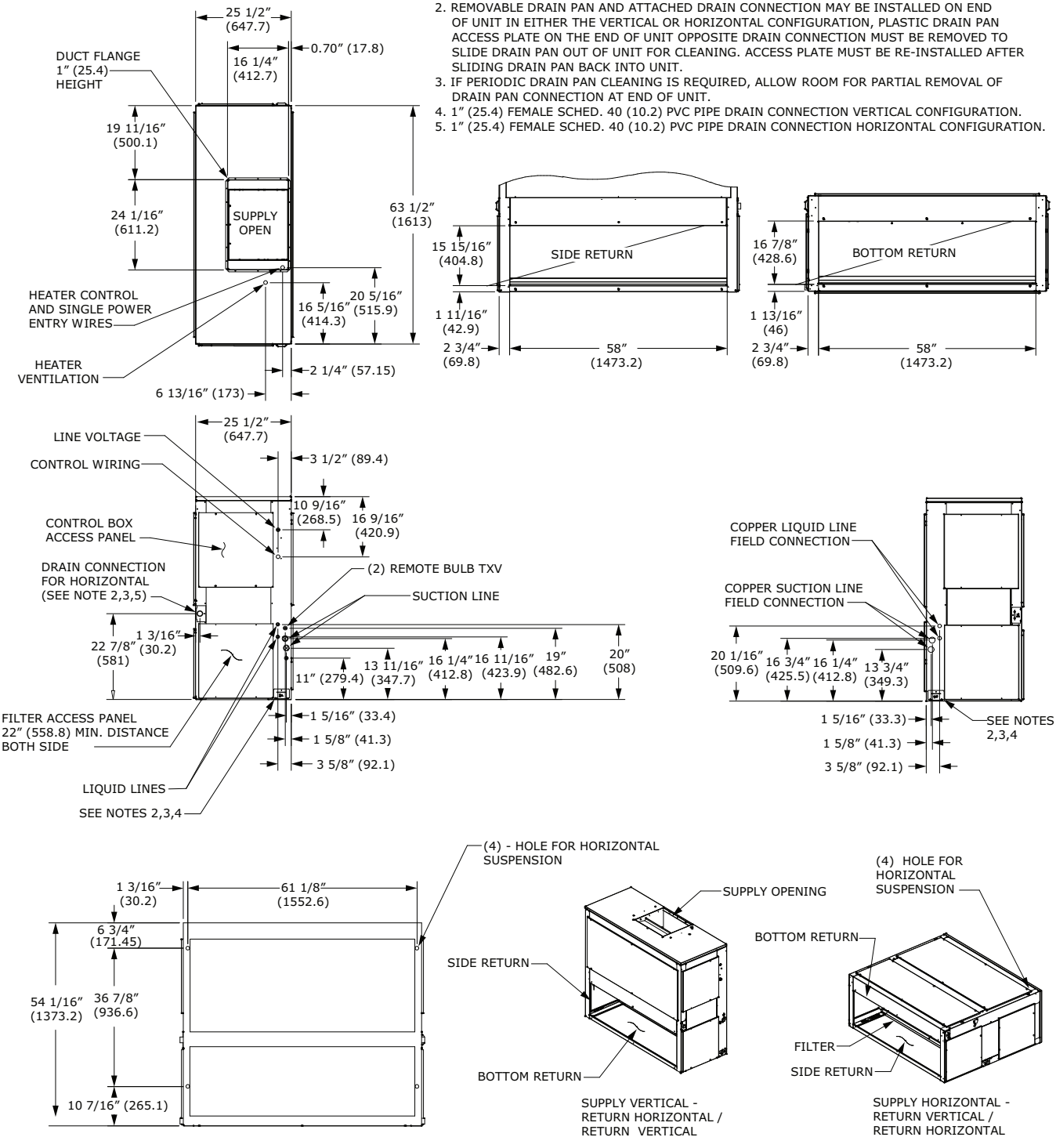


Figure 20. 10.4, 13 ton air handler, dual circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

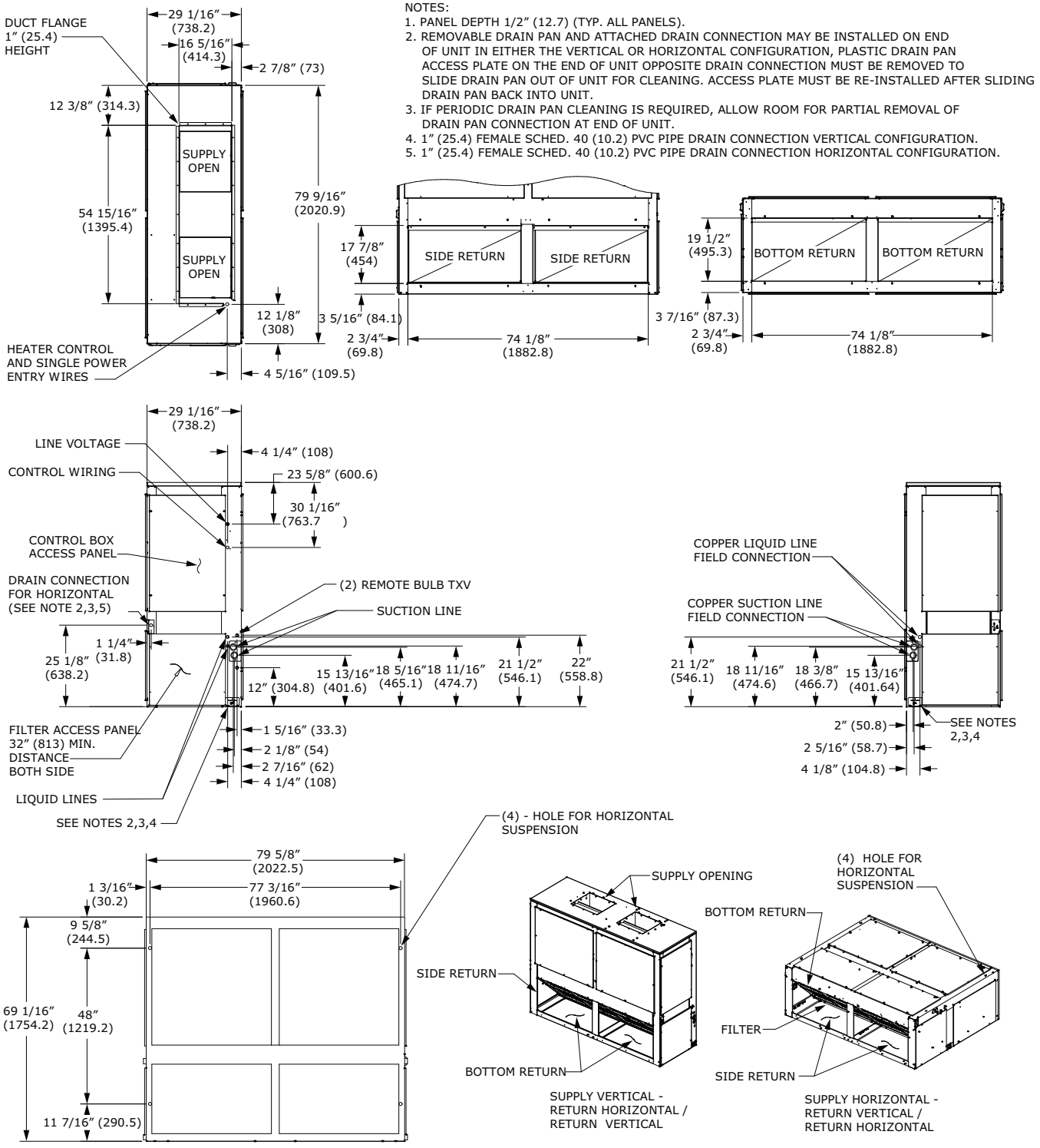
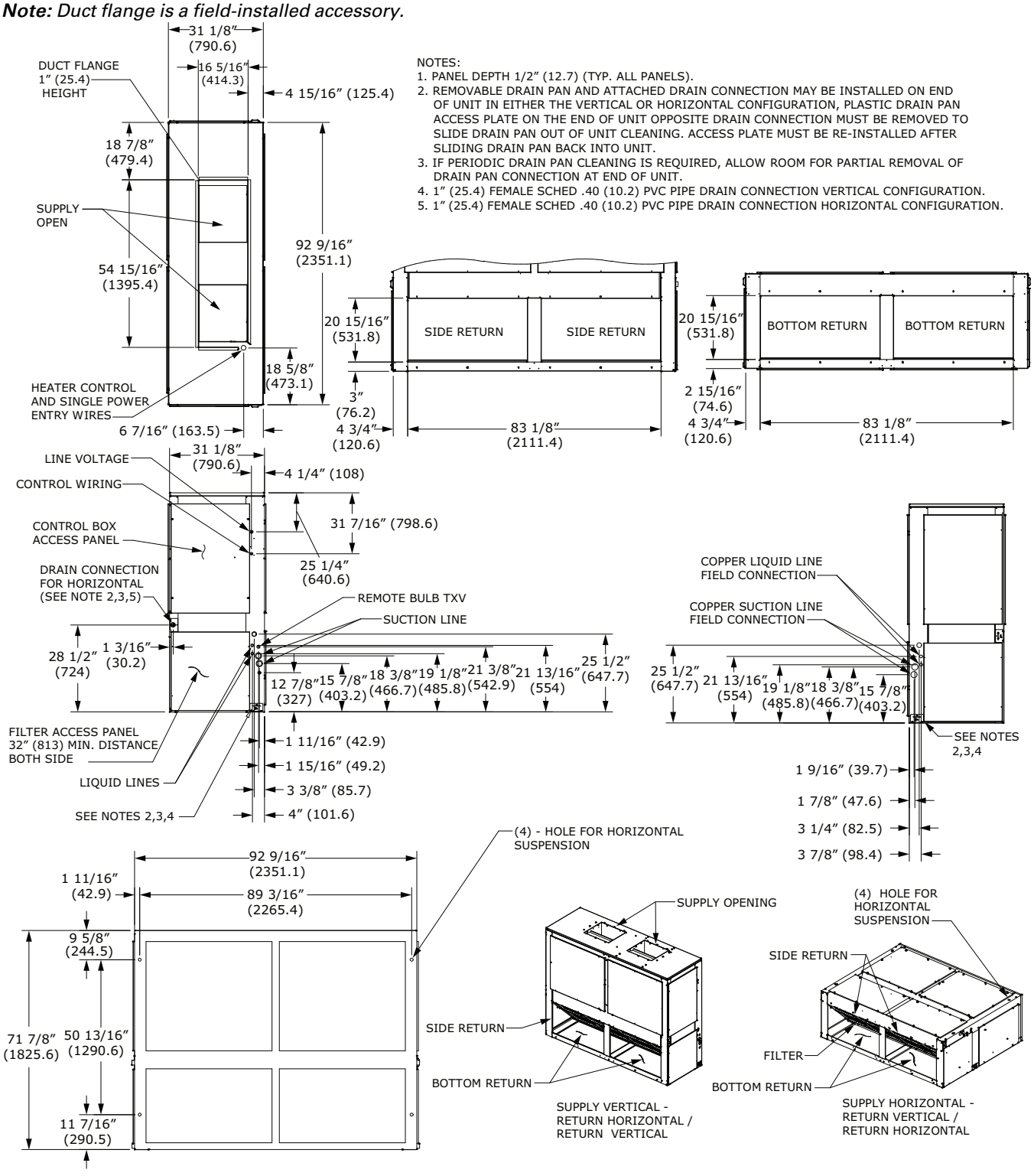


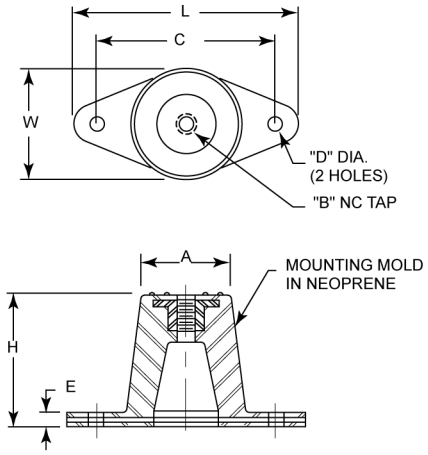
Figure 21. 16.7, 20.9 ton air handler, dual circuit – in (mm)

Note: *Duct flange is a field-installed accessory.*

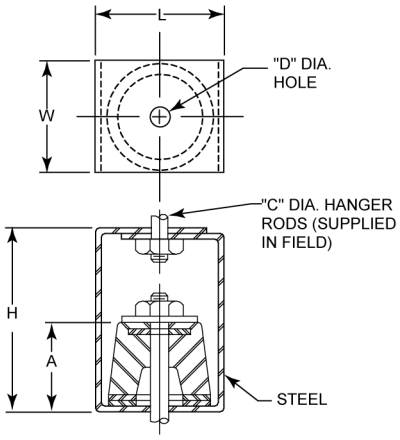


Accessories

Figure 22. Rubber isolator accessory dimensions



BAYISLT004, 005, 009, 010



BAYISLT012, 013, 014, 015, 016

Table 112. Rubber isolator accessory dimensions – in (mm)

Model No.	L	W	H	A	B	C	D	E
BAYISLT004	3-1/8 (79.375)	1-3/4 (44.45)	1-1/4 (31.75)	1-1/4 (31.75)	3/8 (9.525)	2-3/8 (60.325)	3/8 (9.525)	1/4 (6.35)
BAYISLT005	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT009	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT010	3-7/8 (98.425)	2-3/8 (60.325)	1-3/4 (44.45)	1-3/4 (44.45)	3/8 (9.525)	3 (76.2)	3/8 (9.525)	1/4 (6.35)
BAYISLT013	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT014	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT015	2-1/4 (57.15)	2 (50.8)	3 (76.2)	1-3/8 (34.925)	3/4 (19.05)	3/8 (9.525)	1/2 (12.7)	—
BAYISLT012	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—
BAYISLT015[(a)]	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—
BAYISLT016	3 (76.2)	2-1/4 (57.15)	4-1/2 (114.3)	1-7/8 (47.625)	1/4 (6.35)	5/8 (15.875)	3/4 (19.05)	—

Note: BAYISLT015 contains a quantity 2 of the 2-1/4 x 2 x 3 isolators and quantity of 3 of the 3 x 2-1/4 x 4-1/2 isolators.

Figure 23. Spring isolator accessory dimensions – in (mm)

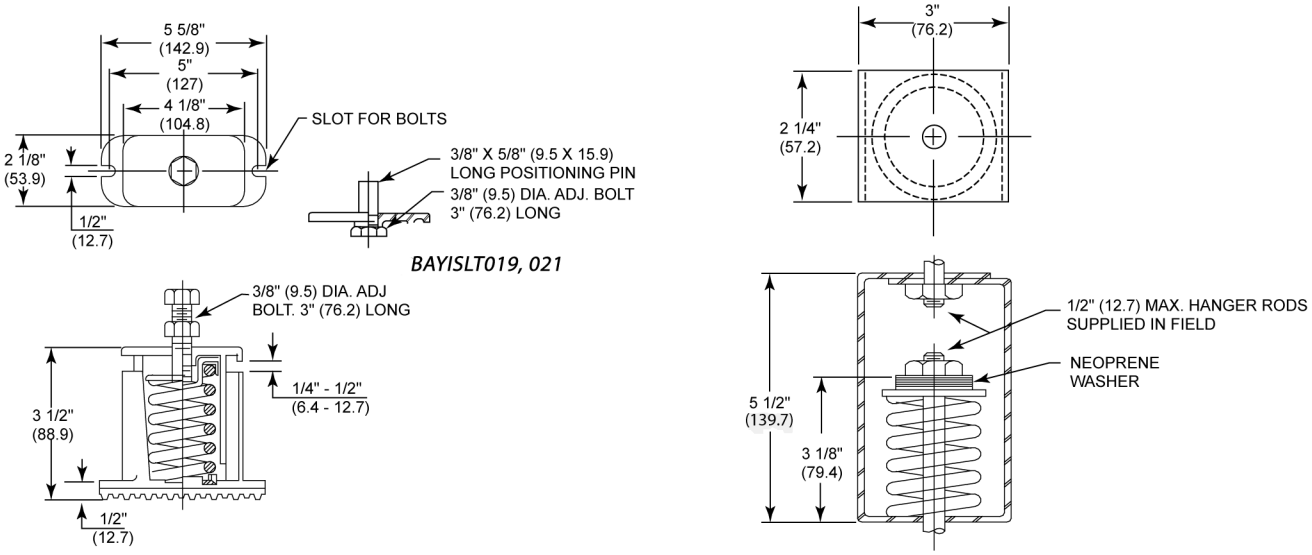


Figure 24. Electric heater accessory for 4.6-8.3 ton air handlers – in (mm)

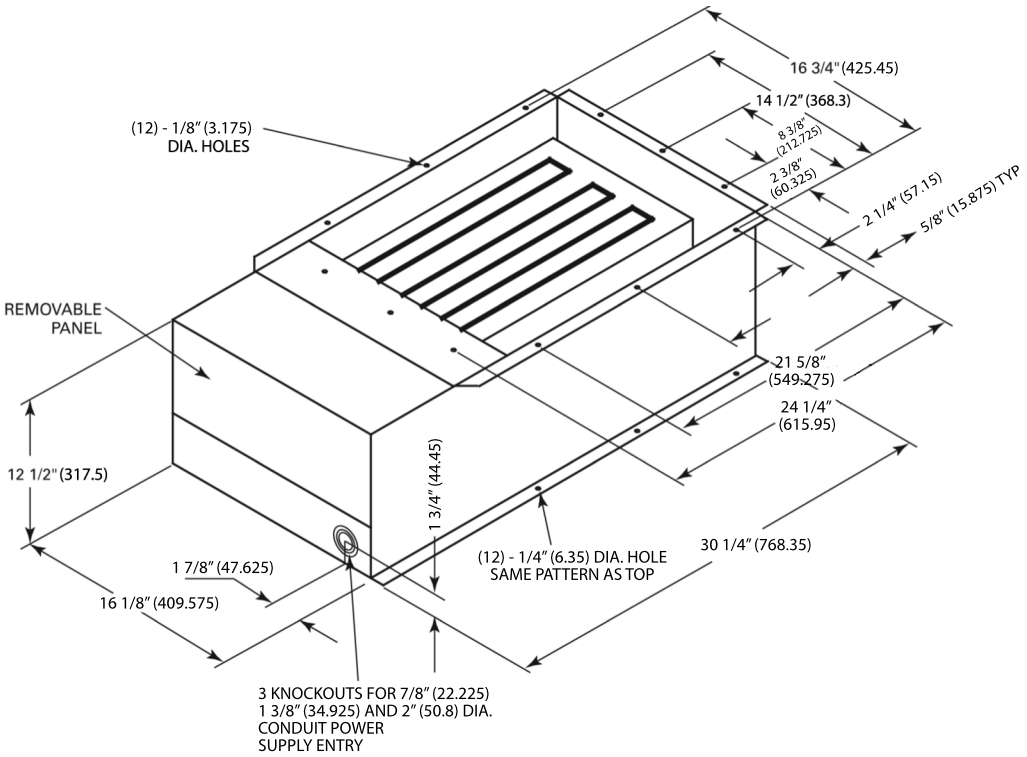


Figure 25. Electric heater accessory for 10.4-20.9 ton air handlers – in (mm)

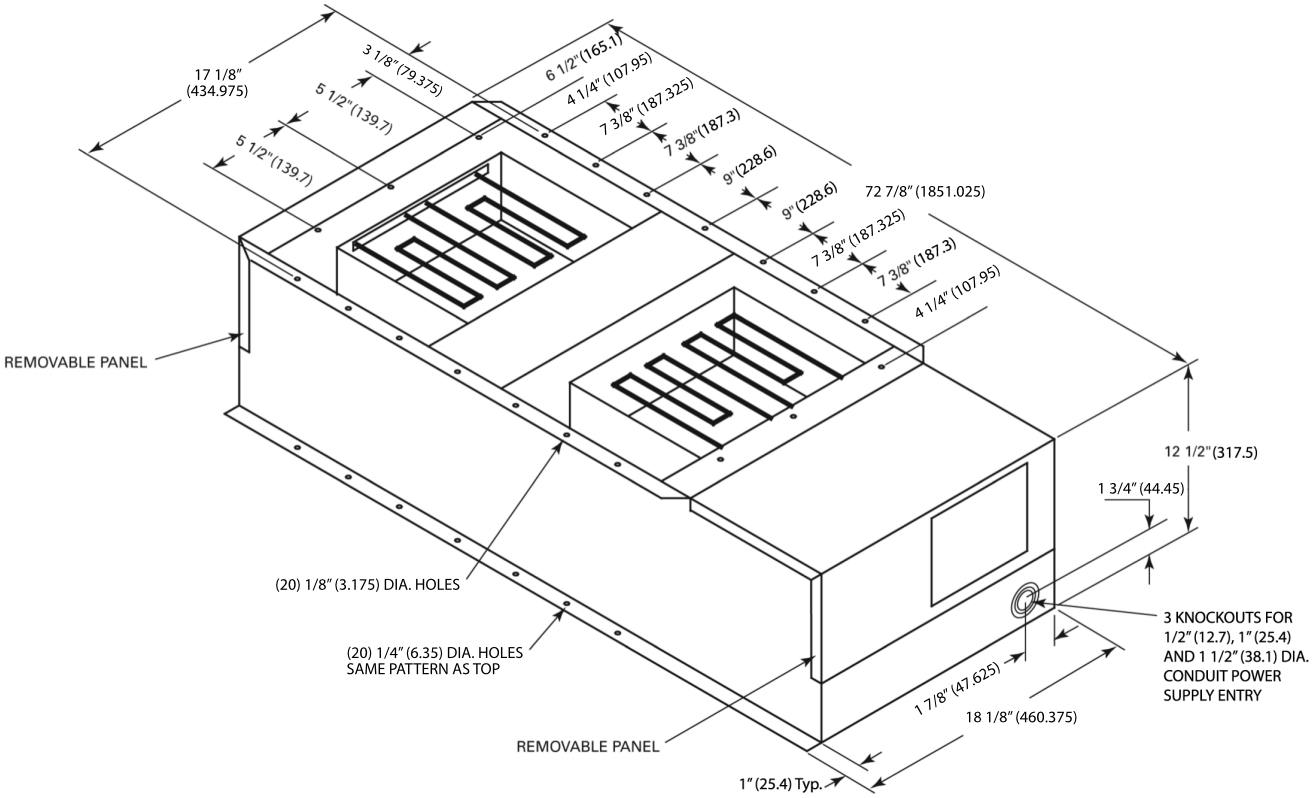
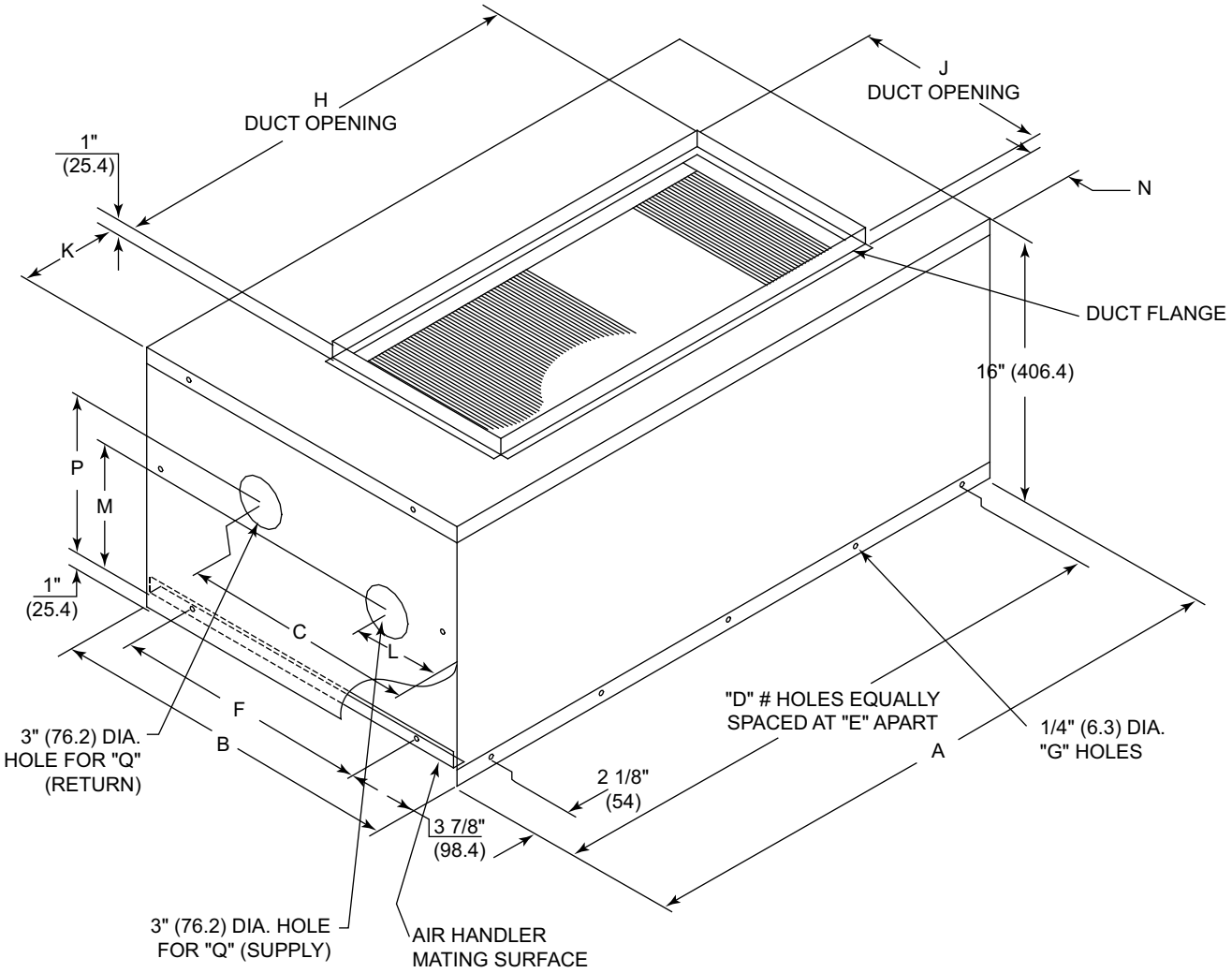


Figure 26. Hot water coil accessory – in (mm)



Note: *Duct flange available as kit. See accessories chapter for details.*

Table 113. Hot water coil accessory – in (mm)

Model No.	A	B	C	D	E	F	G	H
BAYWATR027	38.14 (969)	22.74 (576)	13.74 (349)	5 (127)	9 (229)	13.65 (347)	16 (406)	26 (660)
BAYWATR028	47.74 (1213)	25.74 (654)	15.95 (405)	5 (127)	10.84 (275)	17.17 (436)	16 (406)	30 (762)
BAYWATR029	63.84 (1621)	25.74 (654)	15.95 (405)	6 (152)	11.84 (301)	17.16 (436)	18 (457)	36 (914)
BAYWATR030	79.74 (2025)	29.18 (741)	14.36 (365)	8 (203)	10.85 (276)	19.67 (500)	22 (559)	51 (1295)
BAYWATR031	92.74 (2356)	31.24 (793)	16.48 (419)	8 (203)	10.85 (276)	19.67 (500)	22 (559)	64 (1626)

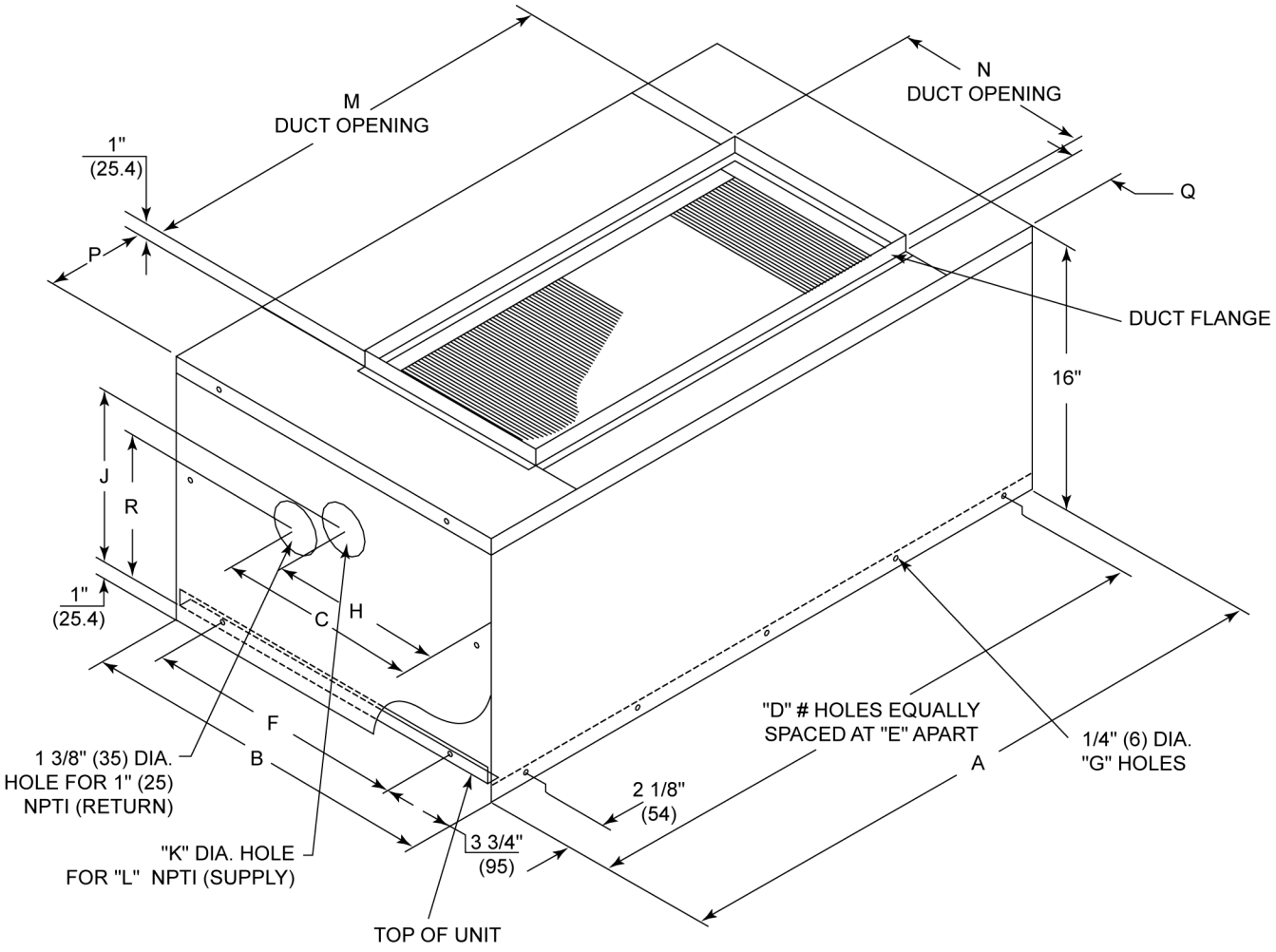
Model No.	J	K	L	M	N	P	Q
BAYWATR027	12 (305)	6 (152)	4.94 (125)	7.79 (198)	2.88 (73)	10.24 (260)	2 NPT (51) NPTI
BAYWATR028	18 (457)	8.88 (225)	8.45 (215)	10.27 (261)	2.88 (73)	7.77 (197)	2.5 NPTI (64) NPTI
BAYWATR029	18 (457)	13.88 (352)	8.45 (215)	10.03 (255)	2.88 (73)	7.58 (192)	2.5 NPTI (64) NPTI
BAYWATR030	18 (457)	14.25 (362)	6.86 (174)	9.91 (252)	1.88 (48)	7.41 (188)	2.5 NPTI (64) NPTI

Table 113. Hot water coil accessory – in (mm) (continued)

Model No.	J	K	L	M	N	P	Q
BAYWATR031	18 (457)	14.25 (362)	8.98 (228)	9.88 (251)	3.75 (95)	7.38 (187)	2.5 NPTI (64) NPTI

Note: Hot Water Coil Dimensions - inches (millimeters)

Figure 27. Steam coil accessory – in (mm)



Note: *Duct flange available as kit. See accessories chapter for details.*

Table 114. Steam coil accessory – in (mm)

Model No.	A	B	C	D	E	F	G	H	J	K
BAYWATR022	38.14 (969)	22.74 (577)	14.32 (364)	5 (127)	9 (229)	13.67 (347)	16 (406)	10.88 (276)	11.17 (284)	2 (51)
BAYWATR023	47.74 (1212)	25.74 (654)	20.14 (511)	5 (127)	10.84 (275)	17.17 (436)	16 (406)	10.88 (276)	11.17 (284)	2 (51)
BAYWATR024	63.84 (1621)	25.74 (654)	20.14 (511)	6 (152)	11.87 (301)	17.16 (436)	18 (457)	13.70 (348)	10.57 (268)	2.5 (64)
BAYWATR025	79.74 (2025)	29.18 (741)	18.55 (471)	8 (203)	10.85 (275)	19.67 (500)	22 (559)	12.11 (308)	10.05 (255)	2.5 (64)
BAYWATR026	92.74 (2355)	31.24 (793)	20.67 (525)	8 (203)	10.85 (275)	19.67 (500)	22 (559)	14.23 (361)	10.01 (254)	2.5 (64)

Table 114. Steam coil accessory – in (mm) (continued)

Model No.	L	M	N	P	Q	R
BAYWATR022	1.5 (38)	26 (660)	12 (305)	6 (152)	2.87 (73)	9.95 (253)
BAYWATR023	2 (51)	30 (762)	18 (457)	8.87 (225)	2.87 (73)	9.95 (253)
BAYWATR024	2 (51)	36 (914)	18 (457)	13.87 (352)	2.87 (73)	9.13 (232)
BAYWATR025	2 (51)	51 (1295)	18 (457)	14.12 (359)	1.87 (48)	8.61 (219)
BAYWATR026	2 (51)	64 (1626)	18 (457)	14.12 (359)	3.75 (95)	8.58 (218)

Figure 28. Discharge plenum and grille accessory

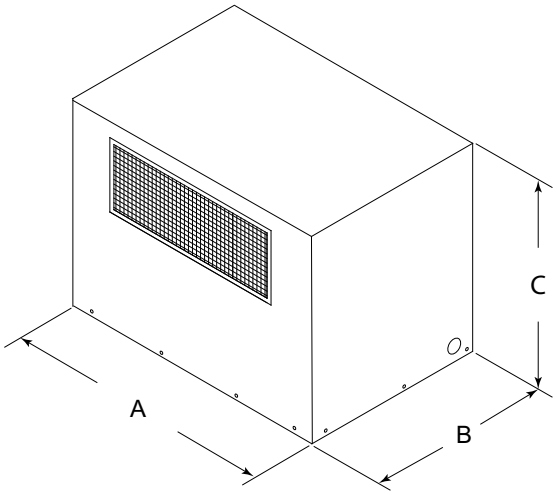


Table 115. Discharge plenum and grille dimensions – no heat – in (mm)

Unit	Model No.[a]	A	B	C
TWE051	BAYPLNM015	37.94 (963.6)	21.94 (557.2)	28 (711.2)
TWE072, TWE076	BAYPLNM016	47.5 (1206.5)	24.99 (634.7)	28 (711.2)
TWE101	BAYPLNM017	63.5 (1612.9)	24.99 (634.7)	28 (711.2)
TWE126, TWE156	BAYPLNM018[b]	79.5 (2019.3)	27.63 (701.8)	22 (558.8)
TWE201, TWE251	BAYPLNM019[b]	92.5 (2349.5)	30.43 (772.9)	24 (609.6)
TWE051	BAYPLNM020	37.91 (962.9)	21.91 (556.5)	14.75 (374.65)
TWE076	BAYPLNM021	47.5 (1206.5)	24.99 (634.7)	14.75 (374.65)
TWE126	BAYPLNM022	63.5 (1612.9)	24.99 (634.7)	14.75 (374.65)

[a] When installed horizontally, plenum/water coil must be self-supported.
[b] For use with hydronic heat or no heat.

Figure 29. Discharge plenum and grille accessory

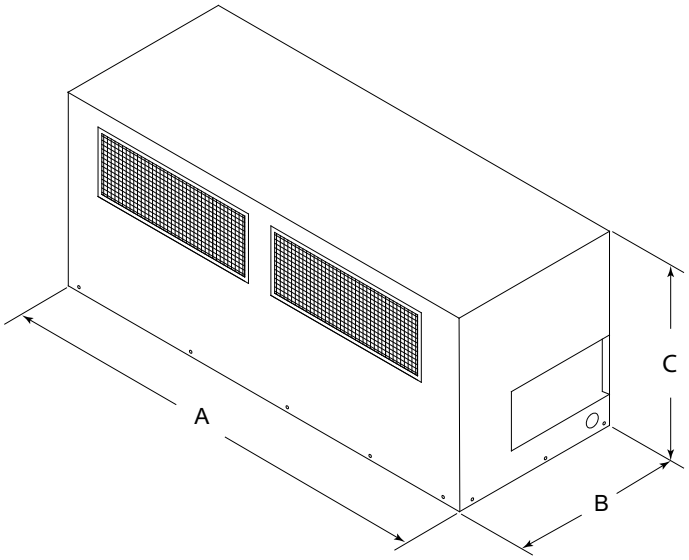


Table 116. Discharge plenum and grille dimensions (for use with electric heat) – in (mm)

Tons	Model No.	A	B	C
TWE051	BAYPLNM030	38.07 (967)	22.69 (576.3)	29.05 (738)
TWE072, TWE076	BAYPLNM031	47.86 (1216)	25.69 (652.5)	29.05 (738)
TWE101	BAYPLNM032	63.86 (1622)	25.69 (652.5)	29.05 (738)
TWE126, TWE156	BAYPLNM033	80.14 (2036)	29.10 (739.1)	35.11 (892)
TWE201, TWE251	BAYPLNM034	92.96 (2361)	31.10 (789.9)	35.05 (890)

Figure 30. Subbase accessory – in (mm)

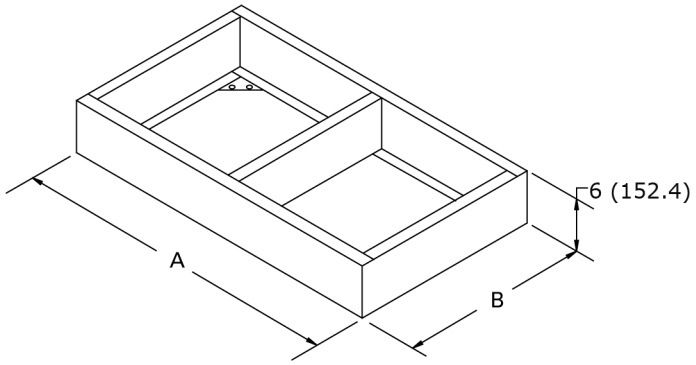


Table 117. Subbase dimensions – in (mm)

Tons	Model No.	A	B
TWE051	BAYBASE009	38 (965.2)	22.63 (574.8)
TWE072, TWE076	BAYBASE010	47.5 (1206.5)	25.51 (648.0)
TWE101	BAYBASE011	63.5 (1612.9)	25.52 (648.2)
TWE126, TWE156	BAYBASE012	79.5 (2019.3)	29.04 (737.6)
TWE201, TWE251	BAYBASE013	92.5 (2349.5)	31.14 (791.0)

Weights

Cooling Condenser

Table 118. TTA R-410A unit and corner weights — kg (50 Hz)

Tons	Model No.	Shipping Max (kg)	Net Max (kg)	Corner Weights			
				1	2	3	4
5	TTA0604DA	146	109	30	33	16	30
	TTA0604DD	154	122	37	37	24	24
6.25	TTA0764DA	155	133	36	44	23	30
	TTA0764DD	170	139	41	41	29	28
8.33	TTA1014DD	196	170	48	59	33	30
	TTA1014DC	214	188	49	76	39	24
10.4	TTA1264DD	227	201	52	70	34	45
13	TTA1564DD	363	312	70	110	51	82
	TTA1564DC	365	313	61	116	46	91
16.7	TTA2014DD	394	318	70	108	55	86
	TTA2014DC	398	345	108	98	68	71
20.9	TTA2514DC	457	384	129	107	98	50

Figure 31. TTA060, 076, 101

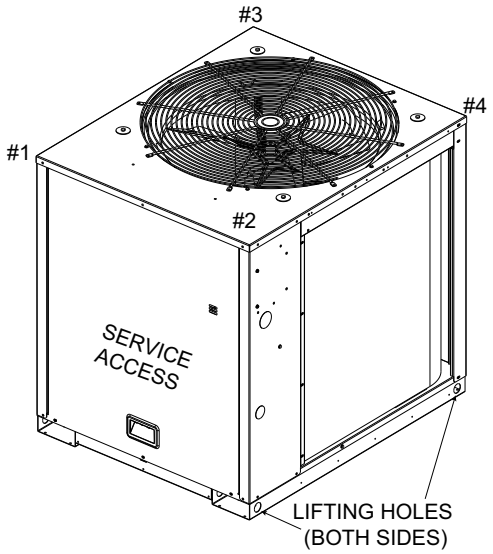
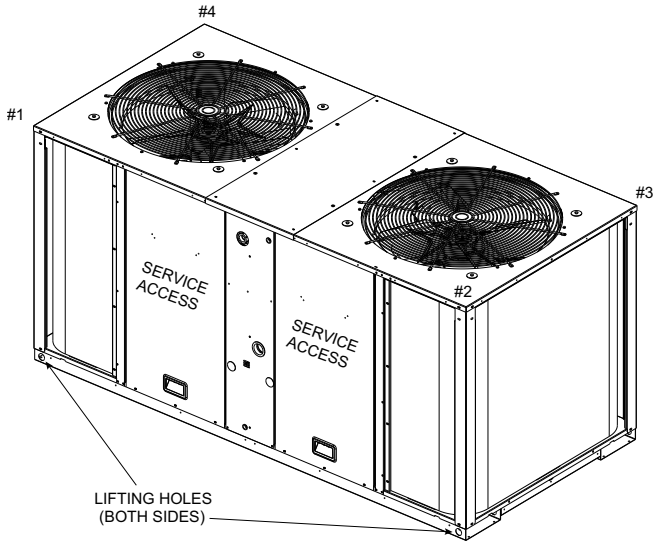


Figure 32. TTA156, 201, 251



Air Handler

Table 119. Constant volume air handler (TWE) — unit and corner weights - (50 Hz)

1	2	3	4	1	2	3	4				
4.6	TWE0514DA	285	232	55	71	51	55	54	67	50	61
6	TWE0724DB	385	323	67	99	75	82	56	92	87	88
6.25	TWE0764DA/B	385	323	67	99	75	82	56	92	87	88
8.33	TWE1014DA/B	441	393	77	121	110	85	79	118	77	119
10.4	TWE1264DB	753	676	168	192	181	135	196	164	145	171
13	TWE1564DB	752	675	167	192	181	135	196	163	145	171
16.7	TWE2014DB	912	818	258	168	161	231	256	181	146	235
20.9	TWE2514DB	993	899	211	229	184	275	272	176	228	223

Figure 33. Vertical — TWE051, 072, 076, 101

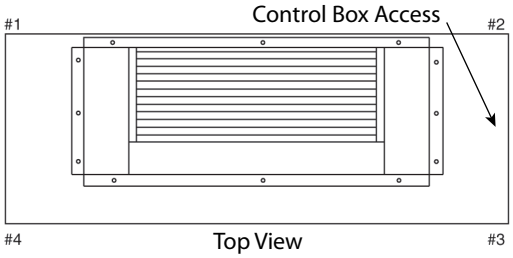


Figure 34. Vertical — TWE126, 156, 201, 251

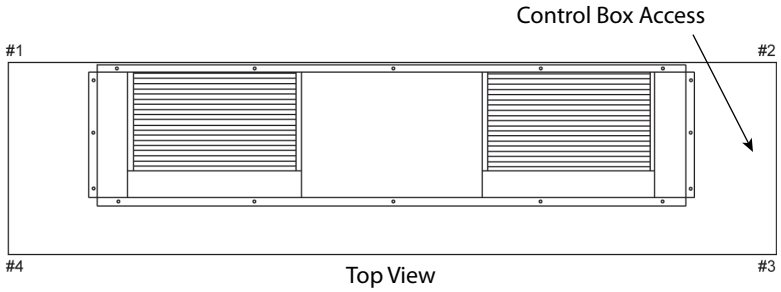


Figure 35. Horizontal — TWE051, 072, 076, 101

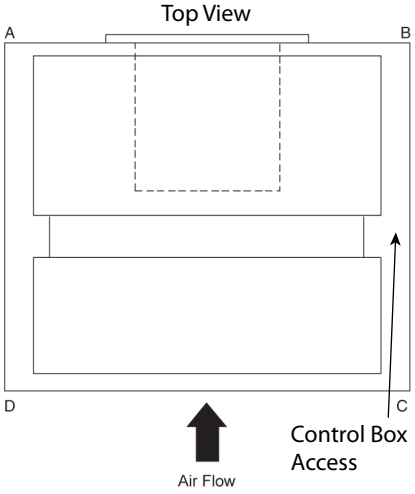
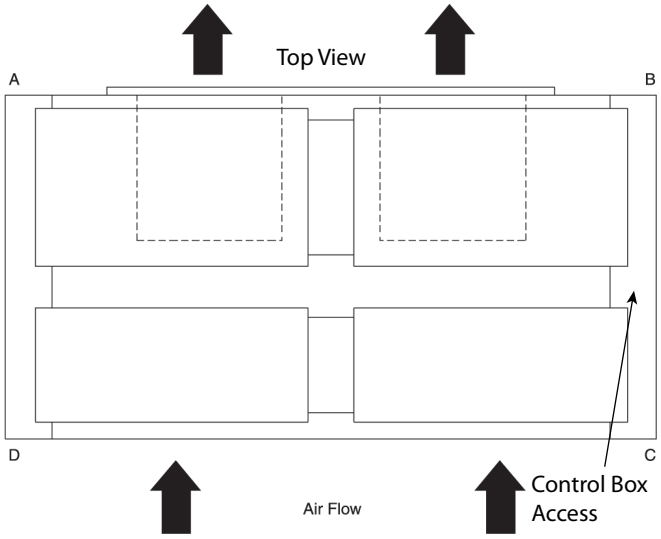


Figure 36. Horizontal — TWE126, 156, 201, 251



Accessories

Table 120. Accessory weights (net lbs.)

Unit Used w/ Tons	Hot Water Coil	Steam Coil	Discharge Plenum and Grille with Hydronic Heat	Discharge Plenum and Grille without Heat	Discharge Plenum and Grille with Electric Heat	Return Air Grille	Electric Heat Min/ Max	Subbase	Oversized Motor	RIS Isolator Floor Mount
5	86	94	63	58	115	3	32/43	14.4	31	2
6.25	116	131	78	73	160	5	27/45	19.4	48	2
8.33	165	148	97	92	195	7	27/45	23.5	50	2
10.4	211	234	—	230	235	10	79/100	28.4	80	2
13	211	234	—	230	235	10	79/100	28.4	80	2
16.7	242	261	—	145	265	12	79/100	31.7	88	2
20.9	242	261	—	145	265	12	79/100	31.7	—	2

Unit Used w/ Tons	RIS Isolator Suspend-ed Mount	Steel Spring Isolator Floor Mount	Steel Spring Isolator Suspend-ed Mount	Hail Guard	Control Trans-former	Sensors	Expansion Module	Low Ambient	Service Valve
5	9	12	6	21	4	—	13	13	5
6.25	6	12	6	21	4	—	13	13	5
8.33	7	12	6	28	4	—	13	13	5
10.4	7	12	6	33	4	—	13	13	5
13	7	12	6	55	4	—	2	2	5
16.7	9	12	6	55	4	—	2	2	5
20.9	9	12	6	71	4	—	2	2	5

Mechanical Specifications

Condensing Units

Standard Features

General

- Weatherproofed steel mounting/lifting rails
- Hermetic scroll compressors
- Microchannel condenser coils
- Fans and motors
- Standard operating range 50-125°F (min. 0°F with low ambient accessory)
- Nitrogen holding charge
- Capacities and efficiencies for split systems are rated within the scope of the Air-Conditioning, Heating, & Refrigeration Institute (AHRI) certification program and display the AHRI Standard 340-360 (I-P) mark. This standard applies to units between 65,000 and 250,000 btu/hr.
- Capacities and efficiencies for split system cooling condensers are rated within the scope of the Air-Conditioning, Heating, & Refrigeration Institute (AHRI) certification program and display the AHRI Standard 365 (I-P) mark. This standard applies to cooling units between 135,000 and 250,000 btu/hr.

Casing

- Zinc coated, heavy gauge, galvanized steel
- Weather resistant baked enamel finish
- Meets ASTM B117, 672 hour salt spray test
- Removable single side maintenance access panels
- Lifting handles in maintenance access panels
- Unit base provisions for forklift and/or crane lifting

Refrigeration System - Single Compressor (TTA0604DA, TTA0764DA, TTA1014DA)

- Single refrigeration circuit with integral subcooling circuit
- Single direct drive hermetic scroll compressor
- Suction gas-cooled motor w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase heater
- Internal temperature and current sensitive motor overloads
- No compressor suction and/or discharge valves (reduced vibration/sound)
- Factory installed liquid line filter drier
- Phase loss/reverse rotation monitor
- External high pressure cutout device
- External low pressure cutout device
- Evaporator defrost control
- Loss of charge protection (discharge temperature limit)

Refrigeration System - Dual Compressor (TTA0604DD, TTA0764DD, TTA1014DD, TTA1264DD, TTA1564DD, TTA2014DD)

- Two (2) separate and independent refrigerant circuits
- Each refrigeration circuit equipped with integral subcooling circuit
- Front or rear refrigerant line connections (TTA156**D/201**D)
- Two (2) direct drive hermetic scroll compressor
- Suction gas-cooled motors w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase Heaters
- Internal temperature and current sensitive motor overloads
- Factory installed liquid line filter driers
- Phase loss/reverse rotation monitor

- No compressor suction and/or discharge valves (reduced vibration/sound)
- External high pressure cutout devices
- External low pressure cutout devices
- Evaporator defrost control
- Loss of charge protection (discharge temperature limits)

Refrigeration System - Dual Manifolded Compressors (TTA1014DC, TTA1564DC, TTA2014DC, TTA2514DC)

- Single refrigerant circuit with integral subcooling circuit
- Two (2) direct drive hermetic scroll compressor
- Suction gas-cooled motors w/ ± 10% voltage utilization range of unit nameplate voltage
- Crankcase Heaters
- Internal temperature and current sensitive motor overloads
- No compressor suction and/or discharge valves (reduced vibration/sound)
- Factory installed liquid line filter drier
- Phase loss/reverse rotation monitor
- External high pressure cutout devices
- External low pressure cutout devices
- Evaporator defrost control
- Loss of charge protection (discharge line thermostats)
- Front or rear refrigerant line connections (TTA1564DC/2014DC/2514DC only)

Condenser Coil (Microchannel)

- Microchannel coils burst tested by the manufacturer
- Coils shall be leak tested to ensure the pressure integrity
- Factory pressure and leak tested to 660 psig
- Perforated steel hail guards available (factory installed option or field installed accessory)

Condenser Fan

- 26" or 28" propeller fan(s)
- Direct drive
- Statically and dynamically balanced

Condenser Motor(s)

- Permanently lubricated totally enclosed or open construction
- Built-in current and thermal overloads
- Ball or sleeve bearing type

Controls

- Centralized microprocessor
- Indoor and outdoor temperature sensors drive algorithms, making decisions for all heating, cooling, and ventilation
- Integrated anti-short cycle timer
- Integrated time delay between compressors
- Completely internally wired
- Colored and keyed connectors and colored wires
- Contactor pressure lugs or terminal block
- Unit external mounting location for disconnect device
- Single point power entry
- Front or rear electrical connections (TTA1564DC/D, 2014DC/D, 2514DC only)

Factory Installed Options

Hail Guards

- Condenser coil protection from hail, vandals, etc.
- Perforated, painted galvanized steel

- Factory or field installed

Complete Coat™ Microchannel Condenser Coil

- Available on Microchannel units only
- Cathodic, epoxy-type, electro-disposition coating formulated for high edge build
- Coating provides excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salty air and other corrosive environments

BACnet Communication Options

- BACnet MS/TP -BACnet IP
- Allows unit communication with Trane or generic BACnet building automation controls

Advanced Diagnostics and LonTalk Communication Interface

- Factory or field installed
- Allows unit communication as a Tracer Lon® device
- Allows unit communication with generic LonTalk® Network building automation controls

Field Installed Options

Low Ambient (Fan ON/OFF)

- Provides unit cooling operation to outdoor ambient of 0°F
- Low cost solution
- Discharge pressure controls condenser fan operation

Service Valves

- Liquid line service valve (with gauge port)
- Suction line service valve (with gauge port)

Vibration Isolators

- Neoprene-in-shear or spring flex choice
- Reduce vibration transmission to building structures, equipment, and adjacent spaces
- Reduce noise transmission to building structures, equipment, and adjacent spaces

Hot Gas Bypass

- Provides capacity modulation solution

Zone Sensor

- Interfaces with microprocessor units
- Manual or automatic programmable
- System malfunction lights
- Remote sensor options

Thermostat

- 1H/1C available
- 2H/1C available
- Manual or automatic changeover available
- Programmable and non-programmable solutions available

LonTalk Communication Interface

- Factory or field installed
- Allows unit communication as a Tracer Lon® device
- Allows unit communication with generic LonTalk® Network building automation controls

Air Handlers

Standard Features

General

- Completely factory assembled
- Convertible for horizontal or vertical configuration
- Convertible for cooling only or heat pump application
- Convertible for left or right external connections (refrigerant and/or electrical)
- Convertible for front or bottom air return
- Nitrogen holding charge

Casing

- Zinc coated, heavy gauge, galvanized steel
- Weather resistant baked enamel finish
- Access panels with captive screws
- Completely insulated with foil faced, cleanable, fire retardant, permanent, odorless glass fiber material
- Captured or sealed insulation edges
- Electrical connection bushings or plugs
- Refrigerant connection bushings or plugs
- Withstand elevated internal static pressure

Refrigeration System

- Single or dual circuit
- Distributor(s)
- Thermal expansion valves (TXVs)

Evaporator Coil

- 3/8" internally enhanced copper tube mechanically bonded to lanced aluminum plate fins
- Factory pressure and leak tested to 449 psig.
- Draw-through airflow
- Dual circuits are interlaced/intertwined
- Double sloped, removable, cleanable, composite drain pan
- Four drain pan positions

Indoor Fan

- Double inlet, double width, forward curved, centrifugal type fan
- Dual fans on 10.4 – 20.9 ton air handlers
- Adjustable belt drive
- Permanently lubricated bearings

Indoor Motor

- Adjustable motor sheaves (constant volume units)
- Thermal overload protection
- Permanently lubricated bearings
- Meet energy policy of 1992 (EPACT)
- Optional oversized motors for high static applications

Controls

- Completely internally wired
- Colored and keyed connectors, colored wires
- Magnetic indoor fan contactor
- Detachable low voltage connectors
- Single point power entry
- Evaporator defrost control

Filters

- Access from side coil panels
- Filters slide on rack
- One inch (1"), throwaway filters on 4.6 - 8.33 ton units
- Filter rack convertible to two inch (2") capability on 4.6 - 8.33 ton units
- Two inch (2"), throwaway filters on 10.4 - 16.7 ton units

Field Installed Options

Electric Heaters

- Heavy duty nickel chromium elements
- Installs directly on fan discharge
- One or two stage control (dependent upon capacity)
- Single point power entry
- Terminal strip connections
- Heaters
  - Internally wye connected
  - Automatic line break high limit controls with secondary single action disc limits

Hydronic Heat Coils

- One row steam
- Two row hot water
- Installs directly on fan discharge
- Heavy gauge sheet metal casing matches air handler
- Convertible for horizontal or vertical configurations

Discharge Plenums and Grilles

- Vertical, free discharge applications
- Heavy gauge sheet metal casing matches air handler
- Satin-finished, 4-way adjustable louver grilles

Return Air Grilles

- Vertical, free discharge applications
- Satin-finished, non-adjustable louver grilles
- Replaces front lower access panel

Mounting Sub-Base

- Vertical floor mount configuration requirement
- Heavy gauge sheet metal casing matches air handler
- Provides additional clearance for condensate drain trapping
- Required when isolators are used

Vibration Isolators

- Neoprene-in-shear or spring flex choice
- Floor or suspended applications
- Reduce vibration transmission to building structures, equipment, and adjacent spaces
- Reduce noise transmission to building structures, equipment, and adjacent spaces

Oversize Motors

- High static applications
- Motor, sheaves, belt included

Filters

- 2 inch, MERV 13 high efficiency filters

Trane - by Trane Technologies (NYSE: TT), a global innovator - creates comfortable, energy efficient indoor environments for commercial and residential applications. For more information, please visit trane.com or tranetechnologies.com.

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