TRANE

Product Catalog

Packaged Rooftop Air Conditioners
Precedent™ — Cooling and Gas/Electric
3 to 10 Tons – 60 Hz

July 2014

RT-PRC023AG-EN

Ingersoll Rand

Introduction

Packaged Rooftop Air Conditioners

Trane customers demand products that provide exceptional reliability, meet stringent performance requirements, and are competitively priced. Trane delivers with Precedent™.

Precedent features cutting edge technologies: reliable compressors, Trane engineered ReliaTel controls, computer-aided run testing, and Integrated Comfort™ Systems. So, whether you're the contractor, the engineer, or the owner you can be certain Precedent products are built to meet your needs.

Through the years, Trane has designed and developed the most complete line of Packaged Rooftop products available in the market today. Trane was the first to introduce the Micro—microelectronic unit controls—and has continued to improve and revolutionize this design concept.

Electromechanical controls are available for simpler applications, and for the more sophisticated, ReliaTel™ microprocessor controls.

The ReliaTel control platform offers the same great features and functionality as the original Micro, with additional benefits for greater application flexibility.

With its sleek, compact cabinet, Precedent continues to provide the highest standards in quality and reliability, comfort, ease of service, and the performance of Trane light commercial products.

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Revision History

RT-PRC023AG-EN (11 July 2014)

- Updated Low Leak Economizer Factory and Field Installed Option

RT-PRC023AF-EN (01 February 2014)

- Added Low Leak Economizer Field Installed Option
- Multiple Zone VAV Control Verbiage Refresh
- Electrical Updates - 3 Ton - Tables 147, 148, 149

RT-PRC023-EN (04 September 2013)

- Added 575 volt to HIgh Efficiency Units
- 5GIII update - Cooling and Gas/Electric - T/YHC120
- Human Interface - 5 inch Color Touchscreen

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[1] Crankcase heaters are optional on (T,Y)SC (036, 048, 060, 072, 090, 102, 120); standard on (T,Y)HC (036, 048, 060, 072, 092, 102, 120)
[2] Standard on: (T,Y)SC120F, (T,Y)HC092,102F, (T,Y)HC120E
[3] The microchannel type condenser coil is standard for T/YSC(072,090,092,102,120)F and T/YHC(048,060,072,092,102)F models. The microchannel type condenser coil is not offered on the T/YHC(048,060)F dehumidification model.

- Trane built Scroll Compressors

Options[1]

Factory Installed Options

- Belt Drive Motors[2] (Three-phase)
- Black Epoxy Pre-Coated Coils[3]
- CO_2 Sensor (wiring only)
- CompleteCoat™ Condenser Coil
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- Demand Control Ventilation
- Discharge Air Temperature Sensing Kit
- Economizer: Standard and Low Leak
- Electric Heaters
- Frostat™
- LonTalk® Communications Interface (LCI)
- BACnet® Communications Interface (BCI)

[1] Refer to Model Number Description for option availability.
[2] Option on 3-5 Ton High Efficiency Units
[3] Not available on Microchannel coils.

- Reference or Comparative Enthalpy
- Tool-less Hail Guards
- Trane Communications Interface (TCI)

Field Installed Options

- CO_2 Sensor[1]
- Dual Thermistor Remote Zone Sensor
- Economizer: Low Leak
- High Altitude Kit
- High Static Drive
- Humidity Sensor/Humidistat
- LP Conversion Kit
- Manual Outside Air Damper
- Motorized Outside Air Dampers
- Powered Exhaust
- Quick Adapt Curbs
- Quick Start Kit
- Remote Potentiometer
- Roof Curb
- Thermostat
- Ventilation Override Accessory
- Wireless Zone Sensor
- Zone Sensor

Other Benefits

- Cabinet design ensures water integrity
- Ease of Service, Installation and Maintenance
- Mixed model build enables “fastest in the industry” ship cycle times
- Outstanding Airflow Distribution
- ReliaTel™ Controls
- Unmatched Product Support is 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

[1] CO_2 sensor always field installed; associated with demand control ventilation

Standard Features

Anti-Short Cycle Timer (Standard with ReliaTel)

Provides a 3 minute minimum “ON” time and 3 minute “OFF” time for compressors to enhance compressor reliability by assuring proper oil return.

Direct Drive Motors

For additional static requirements, single-phase units offer multi-speed, direct drive motors. All 10 ton units and 7½-8½ high efficiency units offer variable speed direct drive motors.

Colored And Numbered Wiring

Save time and money tracing wires and diagnosing the unit.

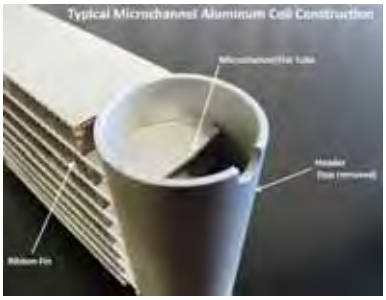
Compressors

Precedent contains the best compressor technology available to achieve the highest possible performance. Dual compressors are outstanding for humidity control, light load cooling conditions and system back-up applications. Dual compressors are available on 7½ to 10 ton models and allow for efficient cooling utilizing 3-stages of compressor operation (high efficiency models only).

Condenser Coil

Precedent™ boasts a patent-pending 1+1+1 condenser coil, permanently gapped for easy cleaning.

Microchannel Condenser Coils



Due to flat streamlined tubes with small ports, and metallurgical tube-to-fin bond, microchannel coil has better heat transfer performance. Microchannel condenser coil can reduce system refrigerant charge by up to 50% because of smaller internal volume, which leads to better compressor reliability. Compact all-aluminum microchannel coils also help to reduce the unit weight. These all aluminum coils are recyclable. Galvanic corrosion is also minimized due to all aluminum construction. Strong aluminum brazed structure provides better fin protection. In addition, flat streamlined tubes also make microchannel coils more dust resistant and easier to clean.

Controls – ReliaTel™ or Electromechanical

ReliaTel microprocessor controls provide unit control for heating, cooling and ventilating utilizing input from sensors that measure indoor and outdoor temperature and other zone sensors. ReliaTel also provides outputs for building automation systems and expanded diagnostics. For a complete list of ReliaTel offerings, refer to the “Other Benefits” section within the Features and Benefits section of this catalog.

For the simpler job that does not require a building automation system, or expanded diagnostics capabilities, Precedent offers electromechanical controls. This 24-volt control includes the control transformer and contactor pressure lugs for power wiring.

Convertible Units

The units ship in a downflow configuration. They can be easily converted to horizontal by simply moving two panels.

Units come complete with horizontal duct flanges so the contractor doesn't have to field fabricate them. These duct flanges are a time and cost saver.

Cooling

Standard or High Efficiency cooling available.

Crankcase Heaters[1]

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

Easy Access Low Voltage Terminal Board

Precedent's Low Voltage Terminal Board is external to the electrical control cabinet. It is extremely easy to locate and attach the thermostat wire and test operation of all unit functions. This is another cost and time saving installation feature.

Foil Faced Insulation

All panels in the evaporator section of the unit have cleanable foil-faced insulation. All edges are either captured or sealed to ensure no insulation fibers get into the airstream.

Heat Exchanger

The compact cabinet features a progressive tubular heat exchanger in low, medium and high heat capacities.

The heat exchanger is fabricated using stainless steel burners and corrosion-resistant aluminized steel tubes as standard on all models. It has an induced draft blower to pull the gas mixture through the burner tubes. The heater has a direct spark ignition system which doubles as a safety device to prove the flame.

Gas/Electric Precedent models exceed all California seasonal efficiency requirements. They also perform better than required to meet the California NOx emission requirements.

High Pressure Control

All units include High Pressure Control as standard.

IAQ Dual Sloped, Plastic, Removable, Reversible Drain Pans

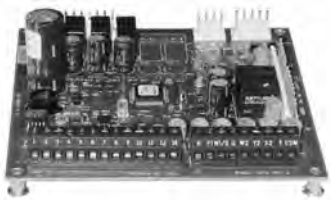
Every Precedent unit has a plastic, removable, dual-sloped drain pan that's easy to clean and reversible to allow installation of drain trap on either side of the unit.

[1] Crankcase heaters are optional on (T,Y)SC (036, 048, 060, 072, 090, 102, 120); standard on (T,Y)HC (036, 048, 060, 072, 092, 102, 120)

Low Ambient Cooling

All Precedent microprocessor units have cooling capabilities down to 0°F as standard. Electromechanical models have cooling capabilities to 40°F as built, or to 0°F by adding the optional low ambient control (Frostat™).

Low Voltage Connections



The wiring of the low voltage connections to the unit and the zone sensors is as simple as 1-1, 2-2, and 3-3. This simplified system makes it easy for the installer to wire.

Phase Monitoring Protection

Precedent™ units with 3-phase power are equipped with phase monitoring protection as standard. These devices protect motors and compressors against problems caused by phase loss, phase imbalance and phase reversal indication.

Plenum Fan[1]

The following units are equipped with a direct drive plenum fan design (all 10 ton units and 7½-8½ ton high efficiency units). Plenum fan design includes a backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor. All plenum fan designs have a variable speed adjustment potentiometer located in the control box.

Quick-Access Panels

Remove two 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 Precedent units.

Due to standardized components throughout the Precedent line, contractors/owners can stock fewer parts.

Thermal Expansion Valve

This feature is standard on all units.

Through-the-Base Condensate

Every unit includes provisions for through-the-base condensate drain connections. This allows the drain to be connected through the roof curb instead of a roof penetration.

[1] Standard on: (T,Y)SC120F, (T,Y)HC092, 102F, (T/Y)HC120E

Variety of Options

Factory Installed Options[1]

Black Epoxy Pre-Coated Coils[2]

The pre-coated coils are an economical option for protection in mildly corrosive environments.

CO_2 Sensor Wiring

This unit wiring for field installed $C0_2$ sensors. Factory-installed $C0_2$ sensor wiring saves time and ensures proper unit connections for the field installed $C0_2$ sensor kits.

CompleteCoat™ Condenser Coil

These coils provide excellent corrosion resistance as well as uniformity of coverage and coating thickness. This option is available for both fin-tube and microchannel condenser coils.

Condensate Overflow Switch

A condensate overflow switch is available to shut the unit down in the event that the condensate drain line becomes clogged. This option protects the unit from water overflowing from the drain pan and entering the base of the units.

Fault Detection & Diagnostics (FDD)

This offering meets the mandatory requirement of CA Title 24 of fully configurable diagnostics allowing fault history and reading fault codes at the unit. This option provides detection of the following faults: Air temperature sensor failure/fault and notification of acceptable economizer mode. The FDD system shall be certified by the Energy Commission as meeting the requirements.

High Efficiency Filtration

Precedent units offer a variety of high efficiency filtration options. MERV 8 and MERV 13 filters provide additional filtration beyond the capabilities of typical 2" throwaway filters. Also, when MERV 8 or MERV 13 filters are ordered, units come equipped with a filter removal tool.

Human Interface - 5 Inch Color Touchscreen

The 5 inch Color Touchscreen Human Interface provides an intuitive user interface to the rooftop unit that speeds up unit commissioning, shortens unit troubleshooting times, and enhances preventative maintenance measures. The human interface includes several features.

- Data trending capabilities by means of time series graphs
- Historical alarm messages
- Real-time sensor measurements
- On board system setpoints
- USB port that enables the downloading of component runtime information as well as trended historical sensor data
- Customized reports

Note: *Refer to RT-SVX49*-EN for additional information.*

[1] Refer to Model Number Description for option availability.

[2] Not available on Microchannel condenser coils.

Novar Unit Controls

Novar 3051 and 2024 are available for Precedent Gas and Electric Heat models.

Belt Drive Motors (Three-phase)

For additional static requirements, Precedent™ 3-5 ton units offer an optional belt drive motor to meet a wide range of airflow needs.

Dehumidification (Hot Gas Reheat) Option

This option allows for increased outdoor air ventilation. It reduces humidity levels while increasing comfort level in the air space. Cooling can operate without a demand for dehumidification. The hot gas reheat coil is designed to deliver maximum reheat temperatures.

Disconnect Switch (Available on units equipped with Through-the-Base Electrical)

Factory installed 3-pole, molded case, disconnect switch for through-the-base electrical connections.

Codes require a method of assured unit shutdown for servicing. Field-installed disconnects sometimes interfere with service access. Factory installation of unit disconnects reduces costs, assures proper mounting and provides the opportunity to upgrade to unit circuit breaker protection.

Circuit Breaker (Available on units equipped with Through-the-Base Electrical)

This option is a factory installed thermal magnetic, molded case, HACR Circuit Breaker with provisions for through-the-base electrical connections.

Hinged Access Doors

These doors permit easy access to the filter, fan/heat and compressor/control sections. They reduce the potential roof damage from screws or sharp access door corners.

Multi-Speed Indoor Fan System

Multi-speed indoor fan system is designed for use in applications for meeting the minimum requirement of CA Title 24.

This system incorporates a multi-speed fan control to change the speed of the fan to 67% of full airflow based off of compressor stages.

Multiple-Zone VAV Control

A multiple-zone VAV (MZVAV) system consists of a packaged rooftop unit that serves several individually controlled zones. Each zone is equipped with a VAV terminal unit that varies the quantity of air delivered to maintain the desired temperature in that zone. The rooftop unit controller varies the speed of the indoor fan to maintain the static pressure in the supply ductwork at a setpoint, ensuring that all zones receive the necessary quantity of air. In addition, cooling capacity is cycled to maintain the supply air temperature at the desired setpoint.

For decades, Trane has been an industry leader in rooftop VAV systems. Now, multiple-zone VAV control is available in the light commercial rooftop platform (3-25 tons).

Powered or Unpowered Convenience Outlet

This option is a GFCI, 120V/15amp, 2 plug, convenience outlet, either powered or unpowered. This option can only be ordered when Through-the-Base Electrical with either the Disconnect Switch or Circuit Breaker option is ordered.

Note: Not available on 575V units.
Note: Not available on 3-5 Ton High Efficiency units with Direct Drive Indoor Motor.

Single Zone VAV – One Zone Variable Air Volume Mode

Single zone VAV is designed for use in single zone applications like gymnasiums, auditoriums, manufacturing facilities, retail box stores, and any large open spaces, where there is a lot of diversity in the load profile. Single Zone VAV (SZ VAV) is an ideal replacement to "yesterday's" constant volume (CV) systems, by reducing operating costs while improving occupant comfort. SZ VAV systems combine Trane application, control and system integration knowledge to exactly match fan speed with cooling and heating loads, regardless of the operating condition. Trane algorithms meet/exceed ASHRAE 90.1- 2010 SZ VAV energy-saving recommendations, and those of CA Title 24. The result is an optimized balance between zone temperature control and system energy savings. Depending on your specific application, energy savings can be as much as 20+%.

Note: *Building system modeling in energy simulation software like TRACE is recommended to evaluate performance improvements for your application.*

SZ VAV is fully integrated into the ReliaTel™ control system and is available today. It provides the simplest and fastest commissioning in the industry through proven factory-installed, wired, and tested system controllers. All control modules, logic and sensors are factory installed, and tested to assure the highest quality and most reliable system available. This means no special programming of algorithms, or hunting at the jobsite for sensors, boards, etc. that need to be installed in the field. Single zone VAV is a quick and simple solution for many applications and is available from your most trusted rooftop VAV system solution provider - Trane.

Stainless Steel Drain Pan

For excellent corrosion and oxidation resistance, the optional stainless steel drain pan provides a cleanable surface that complement other IAQ solutions such as high efficiency filtration (MERV 8 or 13), demand control ventilation (CO_2), and hot gas reheat.

Stainless Steel Heat Exchanger

The optional stainless steel heat exchanger is constructed of 409 stainless steel. It is resistant to corrosion and oxidation and easy to clean. The high strength to weight ratio allows for high ventilation rates with gas units. It is an excellent option to compliment the dehumidification option as a high outside air ventilation unit. With this option, a 10-year stainless steel heat exchanger warranty is standard.

Supply, Return, and Plenum Air Smoke Detector

With this option installed, if smoke is detected, all unit operation will be shut down. Reset will be manual at the unit. In order for the supply air smoke detector or return air smoke detector to properly sense smoke in the supply air stream or the return air stream, the air velocity entering the smoke detector unit must be between 500 - 4000 feet per minute. Equipment covered in this manual will develop an airflow velocity that falls within these limits over the entire airflow range specified in the evaporator fan performance table. Supply and/or Return Smoke Detectors may not be used with the Plenum Smoke Detector.

Through-the-Base Electrical Utility Access

An electrical service entrance shall be provided allowing electrical access for both control and main power connections inside the curb and through-the-base of the unit. Option will allow for field installation of liquid-tight conduit and an external field installed disconnect switch.

Factory provided through-the-base openings simplify wiring and piping. Because these utility openings frequently minimize the number of roof penetrations, the integrity of roofing materials is enhanced.

Factory or Field Installed Options[1]

Barometric Relief

Designed to be used on downflow units, barometric relief is an unpowered means of relieving excess building pressure.

Clogged Filter/Fan Failure Switch

A dedicated differential pressure switch is available to achieve active fan failure indication and/or clogged filter indication.

These sensors allow a zone sensor service light or Integrated Comfort System to indicate a dirty filter or a fan that's not working. The field installation charges for these valuable feedback devices often eliminate them from consideration. Factory installation can make such features a good investment.

Discharge Air Temperature Sensing Kit

Provides true discharge air temperature sensing in heating models. The kit is functional only with the ReliaTel™ Options Module.

[1] Refer to Model Number Description for option availability.

Economizer (Standard)

This accessory shall be available with or without barometric relief. The assembly includes fully modulating 0-100 percent motor and dampers, minimum position setting, preset linkage, wiring harness with plug, spring return actuator and fixed dry bulb control. The barometric relief shall provide a pressure operated damper that shall be gravity closing and shall prohibit entrance of outside air during the equipment "off" cycle. Optional solid state or differential enthalpy control shall be available for either factory or field installation. The economizer arrives in the shipping position and shall be moved to the operating position by the installing contractor.

Electric Heaters

Electric heat modules are available within the basic unit. If ordering the Through-the-Base Electrical option with an Electrical Heater, the heater must be factory installed.

Fresh Air Options – Dampers and Economizer

0 - 25% manual or 0 - 50% motorized outside air hoods are available.

Economizers are equipped with either dry bulb or reference or comparative enthalpy sensing. These economizers provide free cooling as the outdoor temperature and/or humidity decreases. Correctly installed, they offer a valuable energy savings. Factory-installed economizers save time and ensure proper installation.

Low Leak Economizer

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief. This option can be paired with or without Fault Detection & Diagnostics (FDD) to meet current mandatory CA Title 24 requirements. Available on downflow units only.

The economizers come with three control options, dry bulb and reference or comparative enthalpy (optional).

Frostat™

This capillary bulb embedded in the face of the evaporator coil monitors coil temperature to prevent evaporator icing and protect the compressor. Recommended for applications with low leaving air temperatures, low airflow and or high latent load applications. Frostat is standard on all Single-Zone VAV and Multiple-Zone VAV models.

LonTalk® Communications Interface

The LonTalk communications interface allows the unit to communicate as a Tracer™ LCI-V device or directly with the generic LonTalk Network Building Automation System Controls.

BACnet® Communications Interface

The BACnet communications interface allows the unit to communicate directly with a generic open protocol BACnet MS/TP Network Building Automation System Controls.

Reference or Comparative Enthalpy

Measures and communicates humidity while maximizing comfort control.

Trane Communication Interface (TCI)

Available factory or field installed. This module when applied with the ReliaTel™ easily interfaces with Trane's Integrated Comfort™ System.

Tool-less Hail Guards

Tool-less, hail protection quality coil guards shall be either factory or field-installed for condenser coil protection. This option protects the condenser coil from vandalism and/or hail damage.

Field Installed Options[1]

CO_2 Sensor - Demand Control Ventilation (DCV)

Demand-controlled ventilation (DCV) is a control strategy that responds to the actual demand (need) for ventilation by regulating the rate at which the HVAC system brings outdoor air into the building. A CO_2 sensor measures the concentration (parts per million, ppm) of CO_2 (Carbon Dioxide) in the air. As the CO_2 concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone. The CO_2 sensor kit is available as a field installed accessory. Two field installed kits are offered; $C0_2$ sensor and wiring or $C0_2$ sensor only. The $C0_2$ Sensor only kit should be ordered with factory installed $C0_2$ sensor wiring. Factory installed $C0_2$ sensor wiring saves set-up time and ensures proper unit connections for the $C0_2$ sensor.

High Altitude Kit

Previously a Canadian Agency requirement for units applied above 2000 feet, it is not required by the U.S. Domestic contractors should consult with local authority on best practice. Derates gas orifices by 10%.

High Static Drive

Available on many models, this high static drive accessory extends the capability of the standard motor. Avoid expensive motors and operating costs by installing this optimized sheave accessory.

Humidity Sensor/Humidistat

The humidity sensor/humidistat, when used in conjunction with our Dehumidification (Hot Gas Reheat) units will provide outstanding humidity control and comfort. Humidity sensors can be wall or duct mounted. The humidity deadband can be set between 40% and 60% relative humidity.

Low Leak Economizer

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief. Available on downflow units only.

LP Conversion Kit

Provided for field conversion of gas/electric units from Natural gas to Propane.

Quick Adapt Curbs

Enables easy conversion of existing Voyager 3-10 ton units to Precedent units on replacement jobs.

Quick Start Kits

Single phase equipment to enable startup and prevent building lighting dimming during low voltage.

[1] Refer to Model Number Description for option availability.

Roof Curbs

Available for downflow units. Only three roof curbs for the entire line simplifies curb selection.

Remote Potentiometer

When properly installed in the economizer control circuitry, this accessory provides a remote variable resistance to enable the operator to adjust the minimum damper position.

Ventilation Override Accessory

With the Ventilation Override Accessory installed, the unit can be set to transition to up to 3 different pre-programmed sequences for Smoke Purge, Pressurization, and Exhaust. The transition occurs when a binary input on the RTOM is closed (shorted). This would typically be a hard wired relay output from a smoke detector or fire control panel. The ventilation override kit is available as a field installed accessory.

Zone Sensors/Thermostats

Available in programmable, automatic and manual styles.

Other Benefits

Easy to Install, Service and Maintain

Because today's owners are very cost-conscious when it comes to service and maintenance, the Precedent 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. Precedent 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.

Airflow Distribution

Airflow is outstanding. Precedent can replace an older machine with old ductwork and, in many cases, improve the comfort through better air distribution.

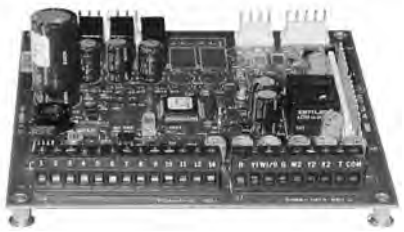
Cabinet Integrity

For added water integrity, Precedent has a raised 1 1/8" lip around the supply and return of the downflow units to prevent water from blowing into the ductwork.

Flexibility

Precedent offers ultimate flexibility. Units are built to order in our standard "shortest in the industry" ship cycle time.

ReliaTel™ Controls



ReliaTel controls provide unit control for heating, cooling and ventilating utilizing input from sensors that measure outdoor and indoor temperature.

ReliaTel Control Logic Enhances Quality and Reliability

- prevents the unit from short cycling, considerably improving compressor life.
- ensures that the compressor will run for a specific amount of time which allows oil to return for better lubrication, enhancing the reliability of the compressor.

Precedent units with ReliaTel reduces the number of components required to operate the unit, thereby reducing possibilities for component failure.

ReliaTel Makes Installing and Servicing Easy

ReliaTel eliminates the need for field installed anti-shortcycle timer and time delay relays. ReliaTel controls provide these functions as an integral part of the unit. The contractor no longer has to purchase these controls as options and pay to install them.

The wiring of the low voltage connections to the unit and the zone sensors is as easy as 1-1, 2-2, and 3-3. This simplified system makes wiring easier for the installer.

ReliaTel Makes Testing Easy

ReliaTel requires no special tools to run the Precedent unit through its paces. Simply place a jumper between Test 1 and Test 2 terminals on the Low Voltage Terminal Board and the unit will walk through its operational steps automatically.

The unit automatically returns control to the zone sensor after stepping through the test mode a single time, even if the jumper is left on the unit.

As long as the unit has power and the "system on" LED is lit, ReliaTel is operational. The light indicates that the controls are functioning properly.

ReliaTel features expanded diagnostic capabilities when utilized with Trane Integrated Comfort™ Systems.

Some zone sensor options have central control panel lights which indicate the mode the unit is in and possible diagnostic information (dirty filters for example).

Other ReliaTel Benefits

The ReliaTel built-in anti-shortcycle timer, time delay relay and minimum "on" time control functions are factory tested to assure proper operation.

ReliaTel softens electrical "spikes" by staging on fans, compressors and heaters.

Intelligent Fallback is a benefit to the building occupant. If a component fails, the unit will continue to operate at predetermined temperature setpoint.

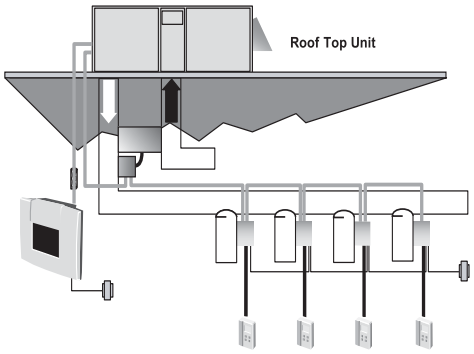
Intelligent Anticipation is a standard ReliaTel feature. It functions continuously as ReliaTel and zone sensor(s) work together in harmony to provide much tighter comfort control than conventional electro-mechanical thermostats.

The same ReliaTel Board fits all Packaged Gas/Electric and Cooling with Electric Heat models. This provides standardization of parts for contractors. Less money is tied up in inventory with ReliaTel.

Unit Cabinet

The compact cabinet with rounded corners takes up less room. The beveled and ribbed top is aesthetically pleasing and designed to prevent water from pooling.

VariTrac® – Changeover-Bypass System



A changeover-bypass system consists of a packaged rooftop unit that serves several individually controlled zones. Each zone is equipped with a damper that varies the quantity of air delivered to maintain the desired temperature in that zone. However, unlike a conventional multiple-zone VAV system, the fan inside the rooftop unit operates at a constant speed. Any unneeded air is diverted to the return air stream through a bypass damper.

The term "changeover" refers to how this system handles the cooling and heating requirements of the building. The central rooftop unit can provide either cooled or heated air, and it makes this decision by periodically "polling" the zones.

Note: *VariTrac is for Precedent™ units with constant-speed indoor fan control. It is not recommended for use with Multiple-Speed Indoor Fan Control, Single-Zone VAV Control, or Multiple-Zone VAV Control.*

Rigorous Testing

All of Precedent's designs were rigorously rain tested at the factory to ensure water integrity.

Actual shipping tests were performed to determine packaging requirements. Units were test shipped around the country to determine the best packaging design. Factory shake and drop tests were 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.

We perform a 100% coil leak test at the factory. The evaporator and condenser coils are leak tested at 600 psig. The assembled unit is leak tested to 465 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 make sure it meets rigorous Trane requirements.

Application Considerations

Application of this product should be within the cataloged airflow and cooling considerations.

Barometric Relief

This product line offers an optional barometric relief damper for use in conjunction with economizer option. This accessory consists of gravity dampers which open with increased pressure. As the building air pressure increases, the pressure in the unit return air section also increases, opening the dampers and relieving the conditioned space.

Note: *The effectiveness of barometric relief damper during economizing operation is limited, depending on the pressure drop of the return-air path. For some applications, powered exhaust may be better suited for preventing over-pressurization when economizing.*

Black Epoxy Coil

The coils are manufactured with a thermoset, vinyl coating that is bonded to the aluminum fin stock prior to the fin stamping process. These coils are an economical option for protection in mildly corrosive environments.

Note: *Not to be used where seacoast applications exist.*

Note: *Not available on Microchannel condenser coils.*

Clearance Requirements

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

Model Number	Clearance required from duct to combustible surfaces (inches)
T(S/H)C036E	0
T(S/H)C048E	0
THC048F	0
T(S/H)C060E	0
THC060F	0
TSC072F	0
THC072F	1
TSC090F	1
TSC092F	0
THC092F	1
TSC102F	0
THC102F	1
TSC120F	1
THC120E	1

CompleteCoat™ Condenser Coil

The coils provide protection from corrosive environments and are ideal for seacoast applications.

Condensate Trap

The evaporator is a draw-thru configuration. A trap must be field provided prior to start-up on the cooling cycle.

Heating Operation

The heat exchanger is manufactured with aluminized steel. To prevent condensation within the heat exchanger, do not exceed 50% outside air or a minimum mixed air temperature of 40°F.

Low Airflow/VAV Operation

Units equipped electric heat or staged gas heat may not be selected for supply airflow less than 320 cfm/ton. Cooling-only units can be used in applications designed for supply airflow below 320 cfm/ton. The units must be high-efficiency models with dehumidification (hot gas reheat) or be equipped with a TXV, Frostat™, and crankcase heaters.

Units selected with Multiple-Speed Indoor Fan Control, Single-Zone VAV Control, or Multiple-Zone VAV Control are capable of operating at supply airflows below 320 cfm/ton at part-load conditions, but design (or "full") airflow must be set to 320 cfm/ton or higher.

Low Ambient Cooling

The Precedent™ line features, with ReliaTel™ microprocessor controls, low ambient cooling down to 0°F. With electromechanical controls, Precedent features low ambient cooling to 40°F. The following features or options need to be included/considered when low ambient applications are required: continuous fan operation, crankcase heaters, thermal expansion valves, Frostat™.

Contact a local Trane Representative for more assistance with low ambient cooling applications.

Optional Stainless Steel Heat Exchanger

The optional stainless steel heat exchanger is manufactured with 409 stainless steel. To prevent corrosion and prolong heat exchanger reliability, the minimum mixed air temperature allowed across the heat exchanger is 20°F.

The stainless steel heat exchanger option is an excellent option that compliments the dehumidification package. Whenever high outside air or outside applications exist, these options should be utilized.

VariTrac®

VariTrac is for Precedent™ units with constant-speed indoor fan control. It is not recommended for use with Multiple-Speed Indoor Fan Control, Single-Zone VAV Control, or Multiple-Zone VAV Control.

Unit Pitch

The unit has a reversible sloped condensate drain pans. The unit must be installed level. Any unit slope must be toward the side of unit where condensate drain is connected.

Selection Procedure

Cooling Capacity

Note: *Cooling Capacity Procedure is the same for electric heat (T*C) and gas heat (Y*C).*

Step 1.

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

Factors used in unit selection:

- Packaged Cooling with Optional Electric Heat
- Total Cooling Load: 59 MBh
- Sensible Cooling Load: 40 MBh
- Airflow: 2000 cfm
- Electrical Characteristics: 460/60/3
- Summer Design Conditions: Entering Evaporator Coil: 80 DB
- 67 WB Outdoor Ambient: 95
- External Static Pressure: 0.36 in. wg
- Downflow Configuration
- Efficiency: 13 SEER
- Economizer

Step 2.

As a starting point, a rough determination must be made of the size of the unit. The final selection will be made after examining the performance at the given conditions. Divide the total cooling load by nominal Btuh per ton (12 MBh per ton); then round up to the nearest unit size.

59 MBh / 12 MBh = approx. 5 tons

Step 3.

Table 13, p. 48 shows that a TSC060E4 has a **gross** cooling capacity of 62.3 MBh and 48.1 MBh sensible capacity at 2000 cfm and 95 DB outdoor ambient with 80 DB, 67 WB air entering the evaporator.

To Find Capacity at Intermediate Conditions not in the table.

When the design conditions are between two numbers that are in the capacity table, interpolation is required to approximate the capacity.

Note: *Extrapolation outside of the table conditions is not recommended.*

Step 4.

In order to select the correct unit which meets the building's requirements, the fan motor heat must be deducted from the gross cooling capacity. The amount of heat that the fan motor generates is dependent on the effort by the motor - cfm and static pressure. To determine the total unit static pressure:

External Static Duct System	0.36 wg
Standard Filter 2 in. from Table 139, p. 183	0.049 wg
Economizer from Table 139, p. 183 (100% Outside Air) *worst case	0.105 wg
Electric Heater Size 6 kW from Table 139, p. 183 (reference "Heating Capacity" section on this page for determination of heater size)	0.021 wg
Total Static Pressure	0.535 wg

Note: *The Evaporator Fan Performance Table 36, p. 84 has deducted the pressure drop for a filter already in the unit (see note below Table 36, p. 84). Therefore, the actual total static pressure is 0.535 -0.049 (from Table 139, p. 183) = 0.486 wg.*

With 2000 cfm and 0.5 wg.
Table 36, p. 84 shows 0.575 bhp for this unit.

Note: *Below the table is the formula to calculate Fan Motor Heat*

2.87 x bhp + 0.75 = MBh
2.87 x 0.575 + 0.75 = 2.4 MBh

Now subtract the fan motor heat from the gross cooling capacity of the unit:

Net Total Cooling Capacity
= 62.3 MBh - 2.4 = 59.9 MBh

Net Sensible Cooling Capacity
= 48.1 MBh - 2.4 = 45.7 MBh

Subtracting Sensible from Total Capacity to find Latent Capacity

Net Latent Capacity
= 59.9 - 45.7 = 14.2 MBh

Step 5.

Compare your resulting capacities to the building load. If the performance will not meet the required load of the building's total or sensible cooling load, try a selection at the next higher size unit.

Heating Capacity

Note: *Heating capacity procedure DIFFERS for electric heat (T*C) and gas heat (Y*C) units*

Step 1.

Calculate the building heating load using the Trane calculation form or other standard accepted method.

Step 2.

Size the system heating capacity to match the calculated building heating load. The following are building heating requirements:
Total heating load of 15 MBh
2000 cfm

T*C units with optional electric heat: 460V/3 phase Power Supply

The electric heat accessory capacities are listed in Table 142, p. 186. From the table, a 6 kW heater will deliver 20.48 MBh at 480 volts. In order to determine capacity at 460 volts, the heater voltage correction factor from Table 144, p. 188 must be used. Therefore, 20.48 MBh x 0.918 (voltage correction factor) = 18.8 MBh.

Y*C units with gas heat: Fuel- natural gas.

60 MBh, 80 MBh and 130 MBh input models shown in Table 140, p. 184. The output capacities of these furnaces are 48 MBh, 64 MBh and 104 MBh respectively. The low heat model with 48 MBh best matches the building requirements.

Air Delivery Selection

Note: *Air Delivery procedure is the same for electric heat and gas heat units.)*

External static pressure drop through the air distribution system has been calculated to be 0.5 inches of water. Enter Table 52, p. 100 for a TSC060E4 at 2000 cfm and 0.5 static pressure. The standard direct drive motor will give the desired airflow at a rated bhp of 0.73 and 951 rpm.

Dehumidification Selection

Note: *Dehumidification selection procedure is the same for both electric heat (THC) and gas heat (YHC) models).*

Typical 5 ton THC060E

2000 cfm Total Supply airflow
400 cfm Outside Air (40%)
600 cfm Return Air
0.34″ External Static Pressure

OA Conditions
Part load day and raining
68°F db
67°F wb
95% RH
RA conditions
75°F db
63°F wb

Step 1:

Determine the mixed/entering air condition (MA)

MA = (% outside air*outside air dry-bulb temperature) + (% return air*return air dry-bulb temperature)

MA = (0.40*68°F) + (0.60*75°F)

MA = 72.20°F db

Repeat for wet-bulb temperature (wb)

MA
72.2°F db
64.6°F wb

Step 2:

Determine the additional static pressure drop for a reheat unit

Table 139, p. 183 shows a static pressure drop of 0.13″ for the reheat coil and an additional 0.08 for the mandatory 2″ pleated filters required when ordering the dehumidification option. Total static pressure =

.34 + 0.08 + 0.13= 0.55

Do not forget to also add any additional static from other accessories. This selection does not include additional accessories.

Table 101, p. 149 (airflow table for 5 ton downflow unit) indicates that a standard motor and drive is needed for this airflow and static pressure range.

Step 3a:

Determine leaving evaporator temperature (SA')

Leaving Evaporator Temperature = SA'

Utilizing the manual **Cooling Capacity** selection method as previously described, find the leaving evaporator temperatures with the formula:

$$\Delta \text{ Temp} = \frac{\text{gross sensible or gross latent cooling capacity in Btuh}}{(\text{cfm})\ (1.085)}$$

Subtract your sensible Δ temp from the entering db and latent Δ temp from the entering wb to determine the leaving evaporator db & wb (temperatures without the addition of fan heat).

52.7°F db
52.7°F wb
52.7°F dp

Step 3b:

Determine leaving unit temperature in standard cooling mode

Repeat Step 3a substituting **net** sensible or latent capacity for **gross** sensible or latent capacity to find the leaving unit temperature including fan heat.

53.7°F db
53.1°F wb

Step 4:

Determine reheat temperature rise

Using the leaving evaporator temp (SA'), go to Table 144, p. 188 and determine the reheat temperature rise for that particular cfm: ≅19.0°F db

Note: *Reheat temperature rise is based on* ***supply airflow*** *and leaving* ***evaporator coil*** *temperature.*

Step 5:

Determine leaving unit sensible temperature with reheat active (SA)
Reheat temperature (obtained in step 4) + (SA' + fan heat) = SA
(SA' + fan heat) = leaving unit temperature in standard cooling mode from step 3b.

19.0°F db + 53.7°F = 72.7°F db

SA=72.7°F

Since reheat adds only sensible heat, the dewpoint temperature will remain constant so follow the dewpoint temperature line across the psychrometric chart to find the new wb temperature.

≅ 60.5°F wb
52.7 dp
49.9% RH

If the space relative humidity is equal to or above the space relative humidity setpoint, the Dehumidification option will:

- Energize compressor or both compressors (2 stage compressor units).
- Hot gas reheat valve is energized and hot gas is diverted to the reheat coil.
- Dehumidification/reheat is terminated when space humidity is reduced to 5% below relative humidity setpoint.

At MA air enters the RTU.The RTU filters, cools, and dehumidifies the air as it moves through the evaporator coil. Air leaves the evaporator coil saturated at the preset dew point condition (SA') and is reheated by the hot gas reheat coil to deliver 72.7°F (SA) supply air to the space.

Model Number Description - 3-10 Ton

Y	S	C	0	3	6	E	3	R	Z	A	*	*
1	2	3	4	5	6	7	8	9	10	11	12	13

Digit 1 - Unit Type

T DX Cooling
Y DX Cooling, Gas Heat

Digit 2 - Efficiency

S Standard Efficiency
H High Efficiency

Digit 3 - Airflow

C Convertible

Digit 4,5,6 - Nominal Gross Cooling Capacity (MBh)

036 3 Ton
048 4 Ton
060 5 Ton
072 6 Ton
090 7½ Ton, Single Compressor
092 7½ Ton, Dual Compressor
102 8½ Ton
120 10 Ton

Digit 7 - Major Design Sequence

E R-410A Refrigerant
F Microchannel Type Condenser Coils[24]

Digit 8 - Voltage Selection

1 208/230/60/1
3 208-230/60/3
4 460/60/3
W 575/60/3

Digit 9 - Unit Controls

E Electromechanical
R ReliaTel™ Microprocessor

Digit 10 - Heating Capacity

0=No Electric Heat
A=5 kW (1 phase)[1]
B=6 kW (3 phase)
C=9 kW (3 phase)
D=10 kW (1 phase)[1]
E=12 kW (3 phase)
F=14 kW (1 phase)[1]
G=18 kW (1&3 phase)
J=23 kW (3 phase)
K= 27 kW (3 phase)
N = 36 kW (3 phase)
P = 54 kW (3 phase)

L Low Heat
M Medium Heat
H High Heat
X Low Heat, Stainless Steel Heat Exchanger
Y Medium Heat, Stainless Steel Heat Exchanger
Z High Heat, Stainless Steel Heat Exchanger

Digit 11 - Minor Design Sequence

A First Sequence[21]
B Second Sequence[20]

Digit 12,13 - Service Sequence

** Factory Assigned

Digit 14 - Fresh Air Selection

0 No Fresh Air
A Manual Outside Air Damper 0-50%[4]
B Motorized Outside Air Damper 0-50%[29]
C Economizer, Dry Bulb 0-100% without Barometric Relief[7]
D Economizer, Dry Bulb 0-100% with Barometric Relief[7]
E Economizer, Reference Enthalpy 0-100% without Barometric Relief[3,7]
F Economizer, Reference Enthalpy 0-100% with Barometric Relief[3,7]
G Economizer, Comparative Enthalpy 0-100% without Barometric Relief[3,7]
H Economizer, Comparative Enthalpy 0-100% with Barometric Relief[3,7]
K Low Leak Economizer with Barometric Relief
M Low Leak Economizer with Reference Enthalpy with Barometric Relief
P Low Leak Economizer with Comparative Enthalpy with Barometric Relief

Digit 15 - Supply Fan/Drive Type/ Motor

0 Standard Drive[6]
1 Oversized Motor
2 Optional Belt Drive Motor[18]
6 Single Zone VAV[27,34]
7 Multi-Speed Indoor Fan[28]
E VAV Supply Air Temperature Control Standard Motor[34]

Digit 16 - Hinged Service Access/ Filters

0 Standard Panels/Standard Filters
A Hinged Access Panels/Standard Filters
B Standard Panels/2" MERV 8 Filters
C Hinged Access Panels/2" MERV 8 Filters
D Standard Panels/2" MERV 13 Filters
E Hinged Access Panels/2" MERV 13 Filters

Digit 17 - Condenser Coil Protection

0 Standard Coil
1 Standard Coil with Hail Guard
2 Black Epoxy Pre-Coated Condenser Coil[26]
3 Black Epoxy Pre-Coated Condenser Coil with Hail Guard[26]
4 CompleteCoat™ Condenser Coil
5 CompleteCoat™ Condenser Coil with Hail Guard

Digit 18 - Through-the-Base Provisions

Note: *Applicable to Digit 1, T or Y models*

0 No Through-the-Base Provisions
A Through-the-Base Electric[8]

Note: *Applicable to Digit 1, Y models only*

B Through-the-Base Gas Piping[16]
C Through-the-Base Electric and Gas Piping[16]

Digit 19 - Disconnect/Circuit Breaker (three-phase only)

0 No Disconnect/No Circuit Breaker
1 Unit Mounted Non-Fused Disconnect[8]
2 Unit Mounted Circuit Breaker[8]

Digit 20 - Convenience Outlet

0 No Convenience Outlet
A Unpowered Convenience Outlet
B Powered Convenience Outlet (three-phase only)[9]

Digit 21 - Communications Options[3]

0 No Communications Interface
1 Trane Communications Interface
2 LonTalk® Communications Interface
3 Novar 2024 Controls[31]
4 Novar 3051 Controls without Zone Sensor[31]
5 Novar 3051Controls Interface with DCV[31]
6 BACnet® Communications Interface

Digit 22 - Refrigeration System Option

0 Standard Refrigeration System[10]
B Dehumidification Option[22,23]

Digit 23 - Refrigeration Controls

Note: *Applicable to Digit 7 = E, F*

0 No Refrigeration Control[5]
1 Frostat™ [11,30]
2 Crankcase Heater[2]
3 Frostat™ [11,30] and Crankcase Heater[2]

Digit 24 - Smoke Detector[17]

0 No Smoke Detector
A Return Air Smoke Detector[12,13]
B Supply Air Smoke Detector
C Supply and Return Air Smoke Detectors[12,13]
D Plenum Smoke Detector

Model Number Description - 3-10 Ton

Digit 25 - System Monitoring Controls

0 No Monitoring Control[14]
1 Clogged Filter Switch[14]
2 Fan Failure Switch[14]
3 Discharge Air Sensing Tube[14]
4 Clogged Filter Switch and Fan Failure Switch[14]
5 Clogged Filter Switch and Discharge Air Sensing Tube[14]
6 Fan Failure Switch and Discharge Air Sensing Tube[14]
7 Clogged Filter Switch, Fan Failure Switch and Discharge Air Sensing Tube[14]
8 Novar Return Air Sensor (NOVAR 2024)[15,31]
9 Novar Zone Temp Sensor (NOVAR 3051)[19,31]
A Condensate Drain Pan Overflow Switch
B Clogged Filter Switch[14] and Condensate Drain Pan Overflow Switch
C Fan Failure Switch[14] and Condensate Drain Pan Overflow Switch
D Discharge Air Sensing[14] and Condensate Drain Pan Overflow Switch
E Clogged Filter Switch[14], Fan Failure Switch[14] and Condensate Drain Pan Overflow Switch
F Clogged Filter Switch[14], Discharge Air Sensing Tube[14] and Condensate Drain Pan Overflow Switch
G Fan Failure Switch, Discharge Air Sensing Tube[14] and Condensate Drain Pan Overflow Switch
H Clogged Filter Switch[14], Fan Failure Switch[14], Discharge Air Sensing[14] and Condensate Drain Pan Overflow Switch

Digit 26 - System Monitoring Controls

0 No Monitoring Controls
A Demand Control Ventilation (CO_2)[32,33]
B Low Leak Economizer with FDD (Fault Detection & Diagnostics)
C FDD (Fault Detection & Diagnostics) with DCV (Demand Control Ventilation)

Digit 27 - Unit Hardware Enhancements

0 No Enhancements
1 Stainless Steel Drain Pan

Digit 31 - Advanced Unit Controls

0 Standard Unit Controls
1 Human Interface

Model Number Notes

1. Available on 3-5 ton models.
2. Crankcase heaters are optional on (T,Y)SC (036, 048, 060, 072, 090, 102, 120); standard on (T,Y)HC (036, 048, 060, 072, 092, 102, 120).
3. Not available with electromechanical controls.
4. Manual outside air damper will ship factory supplied within the unit, but must be field installed.
5. High pressure control is standard on all units.
6. On 3-5 ton, multispeed direct drive is standard on single phase and 15 SEER. On 6-10 ton, multispeed direct drive is standard on all 10 ton and 7.5-8.5 ton high efficiency. Belt drive is standard on all other units.

Digit 15 = 0
Standard Efficiency
1 Phase = High Efficiency Multispeed Direct Drive Motor
3 Phase (3-8½ Ton) = Belt Drive
3 Phase (10 Ton) = Ultra High Efficiency Direct Drive Plenum Fan
High Efficiency
1 Phase = High Efficiency Multispeed Direct Drive Motor
3 Phase (3-5 ton) = High Efficiency Multispeed Direct Drive Motor
3 Phase (3-5 ton w/Dehumidification) = Belt Drive Motor
3 Phase (7½-10 ton) = Ultra High Efficiency Direct Drive Plenum Fan

7. Economizer with Barometric Relief is for downflow configured units only. Order Economizer without Barometric Relief for horizontal configuration. Barometric Relief for horizontal configured units must be ordered as field installed accessory.
8. Through-the-base electric required when ordering disconnect/circuit breaker options.
9. Requires use of Disconnect or Circuit Breaker.

Not Available
Standard Efficiency
10 Ton w/575V
High Efficiency
3-5 ton w/Standard Indoor Motor w/460V
High Efficiency 575V

10. Standard metering devices are TXVs.
11. Frostat™ cannot be field installed in electro-mechanical units.
12. The return air smoke detector may not fit up or work properly on the Precedent units when used in conjunction with 3rd party accessories such as bolt on heat wheels, economizers and power exhaust. Do not order the return air smoke detectors when using this type of accessory.
13. Return Air Smoke Detector cannot be ordered with Novar Controls.
14. These options are standard when ordering Novar Controls.
15. This option is used when ordering Novar Controls.
16. Includes gas piping and shutoff (field assembly required).
17. Not available with high temperature duct sensor accessory.
18. Digit 15 = 2

Standard Efficiency
1 Phase = Not Available
3 Phase = Not Available
High Efficiency
1 Phase = Not Available
3 Phase (3-5 ton) = **May be Ordered**
3 Phase (3-5 ton w/Dehumidification) = Not Available
3 Phase (6-10 ton) = Not Available

19. Novar Sensor utilized with Digit 21 = (4) Novar 3051 Controls without Zone Sensor.
20. Available for T/Y 10 ton standard efficiency models only.
21. Available for T/Y 3, 4, 5, 6, 7½, 8½ ton standard/high efficiency models only.
22. Requires selection of 2" Pleated Filters (option B or C) for Digit 16.
23. Not available on all single phase or standard efficiency.
24. Standard on T/YSC 6, 7½ (single and dual systems), 8½, 10 ton standard efficiency models and T/YHC 4, 5, 6, 7½, 8½ ton high

efficiency models (except for 4, 5, 6 ton dehumidification models).

25. Not available on High Efficiency 575V.
26. Epoxy coil and epoxy with hailguard options are not available for units with microchannel condenser coil.
27. Single Zone VAV is only available on 7.5-10 ton high efficiency and 10 ton standard efficiency products with ReliaTel™ controls.
28. Multi-speed indoor fan available only on 7.5 & 8.5 ton high efficiency, and 10 ton products with ReliaTel™ controls.
29. Motorized Outside Air Damper is not available on Multi-Speed or SZVAV (Single Zone Variable Air Volume) products.
30. Frostat™ standard on Multi-Speed and SZVAV (Single Zone Variable Air Volume) products.
31. Novar is not available with SZVAV products.
32. Demand Control Ventilation not available with electromechanical controls.
33. Demand Control Ventilation Option includes wiring only. The $C0_2$ sensor is a field-installed only option.
34. Discharge Air Sensing is also standard equipment on units with Single Zone and Supply Air Temperature Control VAV.

General Data

Table 1. General data - 3-4 tons - standard efficiency

	3 Tons		4 Tons	
	T/YSC036E1	**T/YSC036E3,4,W**	**T/YSC048E1**	**T/YSC048E3,4,W**
Cooling Performance[a]				
Gross Cooling Capacity	35,620	37,150	49,210	49,450
EER/SEER[b]	11.5/13.0	11.2/13.0	11.1/13.0	10.9/13.0
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600
AHRI Net Cooling Capacity	35,000	35,800	48,000	48,000
System Power (kW)	3.04	3.20	4.32	4.39
Compressor				
Number/Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Sound				
Outdoor Sound Rating (dB)[c]	81	81	82	82
Outdoor Coil - Type	Lanced	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	10.96	9.59	10.96	10.96
Rows/FPI	2/16	2/16	2/16	2/16
Indoor Coil - Type	Lanced	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71	7.71	7.71
Rows/FPI	3/16	3/16	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1
cfm	3,466	3,375	3,411	3,403
Motor hp	0.33	0.33	0.33	0.33
Motor rpm	1,075	1,075	1,075	1,075
Indoor Fan - Type (Standard)	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/RPM	Direct/5[d]	Belt/Variable/1,750	Direct/5[d]	Belt/Variable/1,750
Number Motors	1	1	1	1
Motor hp	0.75	1.0	1.0	1.0
Motor Frame Size	48	56	48	56
Filters[e]				
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 20x30x2	(2) 20x30x2	(2) 20x30x2
Refrigerant Charge[f]				
Pounds of R-410A	6.3	6.0	7.0	7.0

continued on next page

Table 1. General data - 3-4 tons - standard efficiency (continued)

	3 Tons		4 Tons	
	T/YSC036E1	T/YSC036E3,4,W	T/YSC048E1	T/YSC048E3,4,W
Heating Performance[g]				
(Gas/Electric Only)				
Heating Input				
Low Heat Input (Btu)	60,000	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000	80,000
High Heat Input (Btu)	120,000	120,000	120,000	120,000
Heating Output				
Low Heat Input (Btu)	48,000	48,000	49,000	48,000
Mid Heat Input (Btu)	65,000	64,000	65,000	64,000
High Heat Input (Btu)	96,000	96,000	96,000	96,000
AFUE% [h]				
Low Heat Input (Btu)	78	80	79	80
Mid Heat Input (Btu)	78	80	79	80
High Heat Input (Btu)	78	80	79	80
Steady State Efficiency%				
Low Heat Input (Btu)	80	80	81	80
Mid Heat Input (Btu)	81	80	81	80
High Heat Input (Btu)	80	80	80	80
No. Burners				
Low Heat Input (Btu)	2	2	2	2
Mid Heat Input (Btu)	2	2	2	2
High Heat Input (Btu)	3	3	3	3
No. Stages				
Low Heat Input (Btu)	1	1	1	1
Mid Heat Input (Btu)	1	1	1	1
High Heat Input (Btu)	1	1	1	1
Gas Supply Line Pressure				
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)				
Low Heat	1/2	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2	1/2
High Heat	1/2	1/2	1/2	1/2

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
(c) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(d) For multispeed direct drive rpm TSC values, reference Table 33, p. 81. For multispeed direct drive rpm YSC (low & medium gas heat) values reference Table 34, p. 82. For multispeed direct drive rpm YSC (high gas heat) values reference Table 35, p. 83.
(e) Optional 2" MERV 8 and MERV 13 filters also available.
(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(h) AFUE is rated in accordance with DOE test procedures.

Table 2. General data - 5 tons - standard efficiency

	5 Tons	
	T/YSC060E1	**T/YSC060E3,4,W**
Cooling Performance[a]		
Gross Cooling Capacity	59,900	62,270
EER/SEER[b]	11.0/13.0	11.0/13.0
Nominal cfm/AHRI Rated cfm	2,000/2,000	2,000/2,000
AHRI Net Cooling Capacity	58,000	60,000
System Power (kW)	5.25	5.46
Compressor		
Number/Type	1/Scroll	1/Scroll
Sound		
Outdoor Sound Rating (dB)[c]	82	82
Outdoor Coil - Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	10.96	10.96
Rows/FPI	3/16	3/16
Indoor Coil - Type	Lanced	Lanced
Configuration	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71
Rows/FPI	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	3,271	3,245
Number Motors/hp	0.40	0.40
Motor rpm	1,075	1,075
Indoor Fan - Type (Standard)	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5[d]	Belt/Variable/1,750
Motor hp	1.0	1.0
Motor Frame Size	48	56
Filters[e]		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2)20x30x2
Refrigerant Charge [f]		
Pounds of R-410A	9.5	9.4

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Table 2. General data - 5 tons - standard efficiency (continued)

	5 Tons	
	T/YSC060E1	T/YSC060E3,4,W
Heating Performance[g]		
(Gas/Electric Only)		
Heating Input		
Low Heat Input (Btu)	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000
High Heat Input (Btu)	130,000	130,000
Heating Output		
Low Heat Input (Btu)	48,000	48,000
Mid Heat Input (Btu)	65,000	64,000
High Heat Input (Btu)	104,000	104,000
AFUE % [h]		
Low Heat Input (Btu)	78	80
Mid Heat Input (Btu)	79	80
High Heat Input (Btu)	78	80
Steady State Efficiency %		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	81	80
High Heat Input (Btu)	80	80
No. Burners		
Low Heat Input (Btu)	2	2
Mid Heat Input (Btu)	2	2
High Heat Input (Btu)	3	3
No. Stages		
Low Heat Input (Btu)	1	1
Mid Heat Input (Btu)	1	1
High Heat Input (Btu)	1	1
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	1/2
Mid Heat	1/2	1/2
High Heat	1/2	1/2

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
(b) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
(c) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(d) For multispeed direct drive rpm TSC values, reference Table 33, p. 81. For multispeed direct drive rpm YSC (low & medium gas heat) values reference Table 34, p. 82. For multispeed direct drive rpm YSC (high gas heat) values reference Table 35, p. 83.
(e) Optional 2" MERV 8 and MERV 13 filters also available.
(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(h) AFUE is rated in accordance with DOE test procedures.

Table 3. General data - 6-7½ tons - standard efficiency

	6 Tons	7½ Tons	7½ Tons
	T/YSC072F3,4,W	T/YSC090F3,4,W	T/YSC092F3,4,W
Cooling Performance[a]			
Gross Cooling Capacity	75,000	89,000	94,000
EER[b]	11.2	11.2	11.2
Nominal cfm/AHRI Rated cfm	2,400/2,100	3,000/2,400	3,000/2,625
AHRI Net Cooling Capacity	71,000	83,000	89,000
IEER[c]	13.0	12.2	13.0
System Power (kW)	6.36	7.48	7.97
Compressor			
Number/Type	1/Scroll	1/Scroll	2/Scroll
Sound			
Outdoor Sound Rating (dB)[d]	89	89	91
Outdoor Coil - Type	Microchannel	Microchannel	Microchannel
Configuration	Full Face	Full Face	Face-Split
Tube Size (in.)	0.71	0.71	0.71
Face Area (sq. ft.)	16.91	16.91	17.31
Rows/FPI	1/23	1/23	1/23
Indoor Coil - Type	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Face-Split
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.89	9.89	12.36
Rows/FPI	3/16	4/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	6,037	6,037	6,610
Motor hp	0.7	0.7	0.75
Motor rpm	1,100	1,100	1,100
Indoor Fan - Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/12x12	1/12x12	1/15x15
Drive Type/No. Speeds/rpm	Belt/Variable/1,750	Belt/Variable/1,750	Belt/Variable/1,750
Motor hp (Standard/Oversized)	1.0/2.0	1.0/3.0	1.0/3.0
Motor Frame Size (Standard/Oversized)	56/56	56/56	56/56
Filters[e]			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2	(4) 20x25x2
Refrigerant Charge [f]			
Pounds of R-410A	5.5	5.9	3.9/3.6

continued on next page

Table 3. General data - 6-7½ tons - standard efficiency (continued)

	6 Tons	7½ Tons	7½ Tons
	T/YSC072F3,4,W	T/YSC090F3,4,W	T/YSC092F3,4,W
Heating Performance(g)			
(Gas/Electric Only)			
Heating Input			
Low Heat Input (Btu)	80,000	120,000	120,000
Mid Heat Input (Btu)	120,000	150,000/105,000	150,000/105,000
High Heat Input (Btu)	150,000/105,000	200,000/140,000	200,000/140,000
Heating Output			
Low Heat Input (Btu)	64,000	96,000	96,200
Mid Heat Input (Btu)	96,000	120,000/84,000	120,000/84,000
High Heat Input (Btu)	120,000/84,000	160,000/112,000	160,000/112,000
AFUE% (h)			
Low Heat Input (Btu)	—	—	—
Mid Heat Input (Btu)	—	—	—
High Heat Input (Btu)	—	—	—
Steady State Efficiency%			
Low Heat Input (Btu)	80	80	80
Mid Heat Input (Btu)	80	80	80
High Heat Input (Btu)	80	80	80
No. Burners			
Low Heat Input (Btu)	2	3	3
Mid Heat Input (Btu)	3	3	3
High Heat Input (Btu)	3	4	4
No. Stages			
Low Heat Input (Btu)	1	1	1
Mid Heat Input (Btu)	1	2	2
High Heat Input (Btu)	2	2	2
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	3/4	3/4
High Heat	3/4	3/4	3/4

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with DOE test procedures.
(c) Integrated Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360. The IEER rating requires that the unit efficiency be determined at 100%, 75%, 50% and 25% load (net capacity) at the specified in AHRI Standard.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(e) Optional 2" MERV 8 and MERV 13 filters also available.
(f) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(g) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(h) AFUE is rated in accordance with DOE test procedures.

Table 4. General data - 8½-10 tons - standard efficiency

	8½ Tons	10 Tons
	T/YSC102F3,4,W	T/YSC120F3,4,W
Cooling Performance[a]		
Gross Cooling Capacity	102,000	119,000
EER[b]	11.2	11.3
Nominal cfm/AHRI Rated cfm	3,400/2,720	4,000/3,500
AHRI Net Cooling Capacity	96,600	113,000
IEER[c]	13.0	13.0
System Power (kW)	8.62	10.0
Compressor		
Number/Type	2/Scroll	2/Scroll
Sound		
Outdoor Sound Rating (dB)[d]	88	88
Outdoor Coil - Type	Microchannel	Microchannel
Configuration	Face-Split	Face Split
Tube Size (in.)	1	1
Face Area (sq. ft.)	20.77	20.77
Rows/FPI	1/20	1/20
Indoor Coil - Type	Lanced	Lanced
Configuration	Face-Split	Intertwined
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	12.36	12.36
Rows/FPI	3/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	6,610	6,800
Motor hp	0.75	0.75
Motor rpm	1,100	1,100
Indoor Fan - Type	FC Centrifugal	BC Plenum
Number Used/Diameter (in.)/Width (in.)	1/15x15	1/19.7x15
Drive Type/No. Speeds/rpm	Belt/Variable/1,750	Direct/Variable[e]
Motor hp (Standard/Oversized)	2.0/3.0	3.75/—
Motor Frame Size (Standard/Oversized)	56/56	—/—
Filters[f]		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(4) 20x25x2	(4) 20x25x2
Refrigerant Charge [g]		
Pounds of R-410A	4.7/3.9	5.5/4.2

continued on next page

Table 4. General data - 8½-10 tons - standard efficiency (continued)

	8½ Tons	10 Tons
	T/YSC102F3,4,W	T/YSC120F3,4,W
Heating Performance(h)		
(Gas/Electric Only)		
Heating Input		
Low Heat Input (Btu)	120,000	150,000/105,000
Mid Heat Input (Btu)	150,000/105,000	200,000/140,000
High Heat Input (Btu)	200,000/140,000	250,000/175,000
Heating Output		
Low Heat Input (Btu)	96,000	120,000/84,000
Mid Heat Input (Btu)	120,000/84,000	160,000/112,000
High Heat Input (Btu)	160,000/112,000	200,000/140,000
AFUE% (i)		
Low Heat Input (Btu)	—	—
Mid Heat Input (Btu)	—	—
High Heat Input (Btu)	—	—
Steady State Efficiency%		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	80	80
High Heat Input (Btu)	80	80
No. Burners		
Low Heat Input (Btu)	3	3
Mid Heat Input (Btu)	3	4
High Heat Input (Btu)	4	5
No. Stages		
Low Heat Input (Btu)	1	2
Mid Heat Input (Btu)	2	2
High Heat Input (Btu)	2	2
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	3/4
Mid Heat	3/4	3/4
High Heat	3/4	3/4

(a) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
(b) EER is rated at AHRI conditions and in accordance with DOE test procedures.
(c) Integrated Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360. The IEER rating requires that the unit efficiency be determined at 100%, 75%, 50% and 25% load (net capacity) at the specified in AHRI Standard.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(e) For multispeed direct drive rpm T/YSC values, reference Table 136, p. 180.
(f) Optional 2" MERV 8 and MERV 13 filters also available.
(g) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(h) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(i) AFUE is rated in accordance with DOE test procedures.

General Data

Table 5. General data - 3-4 tons - high efficiency

	3 Tons		4 Tons		
	T/YHC036E1	**T/YHC036E3,4W[a],[b]**	**T/YHC048F1**	**T/YHC048E3,4W[b]**	**T/YHC048F3,4W[b]**
Cooling Performance[c]					
Gross Cooling Capacity	38,490	37,600	48,930	49,930	49,930
EER/SEER[d]	13.0/15.2	12.7/15.0[a]	12.55/15.0	15.0	13.35/15.0
Nominal cfm/AHRI Rated cfm	1,200/1,200	1,200/1,200	1,600/1,600	1,600/1,600	1,600/1,600
AHRI Net Cooling Capacity	37,000	37,000	48,000	49,000	49,000
System Power (kW)	2.93	2.99	3.83	3.67	3.67
Compressor					
Number/Type	1/Scroll	1/Scroll	1/Scroll	1/Scroll	1/Scroll
Sound					
Outdoor Sound Rating (dB)[e]	81	81	87	87	87
Outdoor Coil - Type	Lanced	Lanced	Microchannel	Lanced	Microchannel
Configuration	Full Face	Full Face	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.71	0.3125	0.71
Face Area (sq. ft.)	10.96	10.96	16.91	17.00	16.91
Rows/FPI	2/16	2/16	1/23	3/16	1/23
Indoor Coil - Type	Lanced	Lanced	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125	0.3125	0.3125
Face Area (sq. ft.)	7.71	7.71	9.27	9.27	9.27
Rows/FPI	3/16	3/16	3/16	3/16	3/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/22	1/22	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1	Direct/1	Direct/1
cfm	3,064	3,064	3,986	3.982	3,982
Motor hp	0.2	0.2	0.4	0.4	0.4
Motor rpm	1,075	1,075	1,075	1,075	1,075
Indoor Fan - Type (Standard)[f]	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5[g]	Direct/5[g]	Direct/5[g]	Direct/5[g]	Direct/5[g]
Number Motors	1	1	1	1	1
Motor hp (Standard/Oversized)	0.75	.75	1.0	1.0	1.0
Motor Frame Size (Standard/ Oversized)	48	48	48	48	48
Indoor Fan - Type (Optional)		FC Centrifugal		FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/ Width (in.)					
Drive Type/No. Speeds	—	1/11x11 Belt/Variable	—	1/11x11 Belt/Variable	1/11x11 Belt/Variable
Number Motors	—	1	—	1	1
Motor hp (Standard/Oversized)	—	1.0	—	1.0	1.0
Motor Frame Size (Standard/ Oversized)	—	56	—	56	56
Filters[h]					
Type Furnished	Throwaway	Throwaway	Throwaway	Throwaway	Throwaway
Number Size Recommended	(2) 20x30x2	(2) 20x30x2	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2
Optional Hot Gas Reheat Coil (Type)					
Tube Size (in.) OD	—	0.3125	—	0.3125	—
Face Area (sq. ft.)	—	5.23	—	6.28	—
Rows/FPI	—	1/16	—	1/16	—

Table 5. General data - 3-4 tons - high efficiency (continued)

	3 Tons		4 Tons		
	T/YHC036E1	T/YHC036E3,4W[a],[b]	T/YHC048F1	T/YHC048E3,4W[b]	T/YHC048F3,4W[b]
Refrigerant Charge (Lbs. of R-410A)[i]					
Standard	6.2	6.2	5.2	—	5.2
Optional Hot Gas Reheat Coil	—	10.5	—	15.2	—
Heating Performance[j]	(Gas/Electric Only)				
Heating Input					
Low Heat Input (Btu)	60,000	60,000	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000	80,000	80,000
High Heat Input (Btu)	120,000	120,000	120,000	120,000	120,000
Heating Output					
Low Heat Input (Btu)	48,000	48,000	49,000	49,000	49,000
Mid Heat Input (Btu)	65,000	64,000	64,000	64,000	64,000
High Heat Input (Btu)	96,000	96,000	96,000	96,000	96,000
AFUE %[k]					
Low Heat Input (Btu)	78	78	80	80	80
Mid Heat Input (Btu)	78	78	79	79	79
High Heat Input (Btu)	78	78	79	79	79
Steady State Efficiency %					
Low Heat Input (Btu)	80	80	81	81	81
Mid Heat Input (Btu)	81	80	80	80	80
High Heat Input (Btu)	80	80	80	81	81
No. Burners					
Low Heat Input (Btu)	2	2	2	2	2
Mid Heat Input (Btu)	2	2	2	2	2
High Heat Input (Btu)	3	3	3	3	3
No. Stages					
Low Heat Input (Btu)	1	1	1	1	1
Mid Heat Input (Btu)	1	1	1	1	1
High Heat Input (Btu)	1	1	1	1	1
Gas Supply Line Pressure					
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)					
Low Heat	1/2	1/2	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2	1/2	1/2
High Heat	1/2	1/2	1/2	1/2	1/2

(a) YHC036EW: EER = 12.4; SEER = 14.8
(b) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).
(c) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
(d) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
(e) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(f) Belt drive fan is standard on units with reheat option.
(g) For multispeed direct drive rpm THC values, reference Table 36, p. 84. For multispeed direct drive rpm YHC (low & medium gas heat) values reference Table 37, p. 85. For multispeed direct drive rpm YHC (high gas heat) values reference Table 38, p. 86.
(h) Optional 2" MERV 8 and MERV 13 filters also available.
(i) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(j) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(k) AFUE is rated in accordance with DOE test procedures.

Table 6. General data - 5 tons - high efficiency

	5 Tons		
	T/YH060F1	**T/YHC060E3,4W[a]**	**T/YHC060F3,4W[a]**
Cooling Performance[b]			
Gross Cooling Capacity	61,000	61,000	61,000
EER/SEER[c]	12.85/15.0	15.0	12.85/15.0
Nominal cfm/AHRI Rated cfm	2,000/2,000	2,000/2,000	2,000/2,000
AHRI Net Cooling Capacity	59,500	60,000	60,000
System Power (kW)	4.63	4.67	4.67
Compressor			
Number/Type	1/Scroll	1/Scroll	1/Scroll
Sound			
Outdoor Sound Rating (dB)[d]	87	87	87
Outdoor Coil - Type	Microchannel	Lanced	Microchannel
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.71	0.3125	0.71
Face Area (sq. ft.)	16.91	17	16.91
Rows/FPI	1/23	3/16	1/23
Indoor Coil - Type	Lanced	Lanced	Lanced
Configuration	Full Face	Full Face	Full Face
Tube Size (in.)	0.3125	0.3125	0.3125
Face Area (sq. ft.)	9.89	9.89	9.89
Rows/FPI	4/16	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1	Direct/1
cfm	3,953	3,953	3,953
Number Motors/hp	0.40	0.40	0.40
Motor rpm	1,075	1,075	1,075
Indoor Fan - Type (Standard)[e]	FC Centrifugal	FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	1/11x11	1/11x11	1/11x11
Drive Type/No. Speeds/rpm	Direct/5[f]	Direct/5[f]	Direct/5[f]
Motor hp	1.0	1.0	1.0
Motor Frame Size	48	48	48
Indoor Fan - Type (Optional)		FC Centrifugal	FC Centrifugal
Number Used/Diameter (in.)/Width (in.)	—	1/11x11	1/11x11
Drive Type/No. Speeds	—	Belt/Variable	Belt/Variable
Motor hp	—	1.0	1.0
Motor Frame Size	—	56	56
Filters[g]			
Type Furnished	Throwaway	Throwaway	Throwaway
Number Size Recommended	(4) 16x25x2	(4) 16x25x2	(4) 16x25x2
Optional Hot Gas Reheat Coil - Type			
Tube Size (in.) OD	—	0.3125	—
Face Area (sq. ft.)	—	6.28	—
Rows/FPI	—	1/16	—
Refrigerant Charge (Lbs. of R-410A) [h]			
Standard	6.1	—	6.1
Optional Hot Gas Reheat Coil	—	15.7	—

continued on next page

Table 6. General data - 5 tons - high efficiency (continued)

	5 Tons		
	T/YH060F1	T/YHC060E3,4W[a]	T/YHC060F3,4W[a]
Heating Performance[i]			
(Gas/Electric Only)			
Heating Input			
Low Heat Input (Btu)	60,000	60,000	60,000
Mid Heat Input (Btu)	80,000	80,000	80,000
High Heat Input (Btu)	130,000	130,000	130,000
Heating Output			
Low Heat Input (Btu)	49,000	49,000	49,000
Mid Heat Input (Btu)	64,000	64,000	64,000
High Heat Input (Btu)	104,000	104,000	104,000
AFUE % [j]			
Low Heat Input (Btu)	80	80	80
Mid Heat Input (Btu)	79	79	79
High Heat Input (Btu)	80	80	80
Steady State Efficiency %			
Low Heat Input (Btu)	81	81	81
Mid Heat Input (Btu)	80	80	80
High Heat Input (Btu)	80	80	80
No. Burners			
Low Heat Input (Btu)	2	2	2
Mid Heat Input (Btu)	2	2	2
High Heat Input (Btu)	3	3	3
No. Stages			
Low Heat Input (Btu)	1	1	1
Mid Heat Input (Btu)	1	1	1
High Heat Input (Btu)	1	1	1
Gas Supply Line Pressure			
Natural (minimum/maximum)	4.5/14.0	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)			
Low Heat	1/2	1/2	1/2
Mid Heat	1/2	1/2	1/2
High Heat	1/2	1/2	1/2

(a) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).
(b) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 210/240.
(c) EER and/or SEER are rated at AHRI conditions and in accordance with DOE test procedures.
(d) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(e) Belt drive is standard on units with reheat option.
(f) For multispeed direct drive rpm THC values, reference Table 36, p. 84. For multispeed direct drive rpm YHC (low & medium gas heat) values reference Table 37, p. 85. For multispeed direct drive rpm YHC (high gas heat) values reference Table 38, p. 86.
(g) Optional 2" MERV 8 and MERV 13 filters also available.
(h) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(i) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(j) AFUE is rated in accordance with DOE test procedures.

Table 7. General data - 6-7½ tons - high efficiency

	6 Tons	7½ Tons
	T/YHC072E/F3,4W[a]	T/YHC092F3,4W[a]
Cooling Performance[b]		
Gross Cooling Capacity	72,000	92,000
EER[c]	12.6	12.6
Nominal cfm/AHRI Rated cfm	2,400/2,100	3,000/2,625
AHRI Net Cooling Capacity	68,000	89,000
IEER[d],[e]	14.5	14.5
System Power (kW)	5.37	7.06
Compressor		
Number/Type	1/Scroll	2/Scroll
Sound		
Outdoor Sound Rating (dB)[f]	89	88
Outdoor Coil - Type	Microchannel	Microchannel
Configuration	Full Face	Face-Split
Tube Size (in.)	0.71	1
Face Area (sq. ft.)	20.77	20.77
Rows/FPI	1/23	1/20
Indoor Coil - Type	Lanced	Lanced
Configuration	Full Face	Intertwined
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	12.36	12.36
Rows/FPI	4/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/26
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	5,900	6,800
Motor hp	0.7	0.75
Motor rpm	1,100	1,100
Indoor Fan - Type	FC Centrifugal	BC Plenum
Number Used/Diameter (in.)/Width (in.)	1/15x15	1/19.7x15
Drive Type/No. Speeds/rpm	Belt/Variable/1,750	Direct/Variable[g]
Motor hp (Standard/Oversized)	1.0/2.0	3.75/—
Motor Frame Size (Standard/Oversized)	56/56	—/—
Filters[h]		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(4) 20x25x2	(4) 20x25x2
Optional Hot Gas Reheat Coil - Type		
Tube Size (in.) OD	—	0.3125
Face Area (sq. ft.)	—	8.652
Rows/FPI	—	1/16
Refrigerant Charge (Lbs. of R-410A)[i]		
Standard	7.7	5.5/4.2
Optional Hot Gas Reheat Coil	—	6.2/4.3

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Table 7. General data - 6-7½ tons - high efficiency (continued)

	6 Tons	7½ Tons
	T/YHC072E/F3,4W[a]	T/YHC092F3,4W[a]
Heating Performance[j]		
(Gas/Electric Only)		
Heating Input		
Low Heat Input (Btu)	80,000	120,000
Mid Heat Input (Btu)	120,000	150,000/105,000
High Heat Input (Btu)	150,000/105,000	200,000/140,000
Heating Output		
Low Heat Input (Btu)	64,000	96,000
Mid Heat Input (Btu)	96,000	120,000/84,000
High Heat Input (Btu)	120,000/84,000	160,000/112,000
AFUE% [k]		
Low Heat Input (Btu)	—	—
Mid Heat Input (Btu)	—	—
High Heat Input (Btu)	—	—
Steady State Efficiency%		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	80	80
High Heat Input (Btu)	80	80
No. Burners		
Low Heat Input (Btu)	3	3
Mid Heat Input (Btu)	3	3
High Heat Input (Btu)	4	4
No. Stages		
Low Heat Input (Btu)	1	1
Mid Heat Input (Btu)	1	2
High Heat Input (Btu)	2	2
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	1/2
Mid Heat	1/2	3/4
High Heat	3/4	3/4

(a) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).
(b) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
(c) EER is rated at AHRI conditions and in accordance with DOE test procedures.
(d) Integrated Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360. The IEER rating requires that the unit efficiency be determined at 100%, 75%, 50% and 25% load (net capacity) at the specified in AHRI Standard.
(e) 15.0 IEER for SZVAV.
(f) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(g) For multispeed direct drive rpm THC/YHC values, reference Table 136, p. 180.
(h) Optional 2" MERV 8 and MERV 13 filters also available.
(i) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(j) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(k) AFUE is rated in accordance with DOE test procedures.

Table 8. General data - 6-10 tons - high efficiency

	8½ Tons	10 Tons
	T/YHC102F3,4W[a]	T/YHC120E3,4W[a]
Cooling Performance[b]		
Gross Cooling Capacity	104,000	119,000
EER[c]	12.5[e]	12.5
Nominal cfm/AHRI Rated cfm	3,400/2,720	4,000/3,500
AHRI Net Cooling Capacity	99,000	113,000
IEER[d]	14.7[f][g]	14.7[h]
System Power (kW)	7.92	9.04
Compressor		
Number/Type	2/Scroll	2/Scroll
Sound		
Outdoor Sound Rating (dB)[i]	89	87
Outdoor Coil - Type	Microchannel	
Configuration	Face Split	Full Face
Tube Size (in.)	1	0.3125
Face Area (sq. ft.)	20.77	36.1
Rows/FPI	1/20	3/16
Indoor Coil - Type	Lanced	Lanced
Configuration	Intertwined	Intertwined
Tube Size (in.)	0.3125	0.3125
Face Area (sq. ft.)	12.36	16.65
Rows/FPI	5/16	4/16
Refrigerant Control	Thermal Expansion Valve	Thermal Expansion Valve
Drain Connection Number/Size (in.)	1¾ NPT	1¾ NPT
Outdoor Fan - Type	Propeller	Propeller
Number Used/Diameter (in.)	1/26	1/30
Drive Type/No. Speeds	Direct/1	Direct/1
cfm	6,800	7,540
Motor hp	0.75	0.75
Motor rpm	1,100	1,100
Indoor Fan - Type	BC Plenum	BC Plenum
Number Used/Diameter (in.)/Width (in.)	1/19.7x15	1/19.7x15
Drive Type/No. Speeds/rpm	Direct/Variable[j]	Direct/Variable[j]
Motor hp (Standard/Oversized)	3.75/—	3.75/—
Motor Frame Size (Standard/Oversized)	—/—	—/—
Filters[k]		
Type Furnished	Throwaway	Throwaway
Number Size Recommended	(4) 20x25x2	(3) 20x25x2 (2) 20x30x2
Optional Hot Gas Reheat Coil - Type		
Tube Size (in.) OD	0.3125	0.3125
Face Area (sq. ft.)	8.652	15.225
Rows/FPI	1/16	1/16
Refrigerant Charge (Lbs. of R-410A)[l]		
Standard	6.3/4.9	12.8/12.8
Optional Hot Gas Reheat Coil	6.6/4.7	13.3/12.8

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Table 8. General data - 6-10 tons - high efficiency (continued)

	8½ Tons	10 Tons
	T/YHC102F3,4W[a]	T/YHC120E3,4W[a]
Heating Performance[m]		
(Gas/Electric Only)		
Heating Input		
Low Heat Input (Btu)	120,000	150,000/105.000
Mid Heat Input (Btu)	150,000/105,000	200,000/140,000
High Heat Input (Btu)	200,000/140,000	250,000/175,000
Heating Output		
Low Heat Input (Btu)	96,000	120,000/84,000
Mid Heat Input (Btu)	120,000/84,000	160,000/112,000
High Heat Input (Btu)	160,000/112,000	200,000/140,000
AFUE% [n]		
Low Heat Input (Btu)	—	—
Mid Heat Input (Btu)	—	—
High Heat Input (Btu)	—	—
Steady State Efficiency%		
Low Heat Input (Btu)	80	80
Mid Heat Input (Btu)	80	80
High Heat Input (Btu)	80	80
No. Burners		
Low Heat Input (Btu)	3	3
Mid Heat Input (Btu)	3	4
High Heat Input (Btu)	4	5
No. Stages		
Low Heat Input (Btu)	1	2
Mid Heat Input (Btu)	2	2
High Heat Input (Btu)	2	2
Gas Supply Line Pressure		
Natural (minimum/maximum)	4.5/14.0	4.5/14.0
LP (minimum/maximum)	11.0/14.0	11.0/14.0
Gas Connection Pipe Size (in)		
Low Heat	1/2	3/4
Mid Heat	3/4	3/4
High Heat	3/4	3/4

(a) 575V (W voltage) is only available as YHC. No THC models available with 575V (W voltage).
(b) Cooling performance is rated at 95°F ambient, 80°F entering dry bulb, 67°F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to ±20% of nominal cfm. Units are certified in accordance with the Unitary Air-Conditioner Equipment certification program, which is based on AHRI Standard 340/360.
(c) EER is rated at AHRI conditions and in accordance with DOE test procedures.
(d) Integrated Efficiency Ratio (IEER) is rated in accordance with AHRI Standard 340/360. The IEER rating requires that the unit efficiency be determined at 100%, 75%, 50% and 25% load (net capacity) at the specified in AHRI Standard.
(e) YHC102FW: EER = 12.4
(f) 15.5 IEER for SZVAV.
(g) YHC102FW IEER = 14.5
(h) 15.2 IEER for SZVAV.
(i) Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270. For additional information refer to Table 137, p. 181.
(j) For multispeed direct drive rpm THC/YHC values, reference Table 136, p. 180.
(k) Optional 2" MERV 8 and MERV 13 filters also available.
(l) Refrigerant charge is an approximate value. For a more precise value, see unit nameplate and service instructions.
(m) Heating performance limit settings and rating data were established and approved under laboratory test conditions using American National Standards Institute standards. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Applicable to Gas/Electric units only.
(n) AFUE is rated in accordance with DOE test procedures.

Performance Data

Table 9. Gross cooling capacities 3 tons standard efficiency - single phase T/YSC036E1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
960	75	32.7	26.3	36.4	19.7	40.1	12.2	30.2	24.8	33.6	18.1	37.2	10.7	27.4	23.0	30.7	16.7	34.1	9.2
960	80	33.4	32.2	36.8	25.1	40.8	18.7	30.9	30.6	34.1	23.3	37.9	17.2	28.5	28.5	31.2	21.9	34.9	15.8
960	85	35.2	35.2	37.2	30.4	41.2	23.7	33.0	33.0	34.5	28.8	38.3	22.3	30.6	30.6	31.7	27.2	35.2	20.5
960	90	37.4	37.4	37.8	36.3	41.5	28.9	35.2	35.2	35.2	34.8	38.6	27.4	32.8	32.8	32.7	32.7	35.6	25.9
1080	75	33.6	28.2	37.2	20.6	41.0	12.4	31.0	26.6	34.4	19.3	38.0	10.9	28.2	25.2	31.4	17.4	34.9	9.2
1080	80	34.6	34.5	37.7	26.6	41.7	19.7	32.2	32.2	34.9	25.2	38.8	17.6	29.8	29.8	31.9	23.5	35.6	16.2
1080	85	36.8	36.8	38.2	32.8	42.1	25.2	34.4	34.4	35.4	31.3	39.1	23.5	32.0	32.0	32.5	30.0	36.0	22.0
1080	90	39.1	39.1	39.2	39.1	42.4	30.9	36.8	36.8	36.7	36.7	39.5	29.4	34.3	34.3	34.2	34.2	36.4	27.9
1200	75	34.4	30.2	38.0	21.7	41.8	12.5	31.7	28.7	35.1	20.2	38.7	11.6	28.9	27.3	32.0	18.4	35.5	9.5
1200	80	35.8	35.8	38.5	28.2	42.6	20.0	33.4	33.4	35.6	26.9	39.5	18.6	30.9	30.9	32.6	25.1	36.2	16.9
1200	85	38.2	38.2	39.0	35.3	42.8	26.4	35.8	35.8	36.2	34.0	39.8	24.9	33.2	33.2	33.4	32.5	36.6	23.5
1200	90	40.6	40.6	40.6	40.6	43.2	33.1	38.2	38.2	38.1	38.1	40.2	31.5	35.6	35.6	35.5	35.5	37.1	29.9
1320	75	35.0	32.3	38.6	22.6	42.4	12.7	32.4	30.7	35.6	20.9	39.3	11.1	29.6	29.0	32.5	19.4	36.0	10.3
1320	80	37.0	37.0	39.1	30.3	43.2	20.9	34.5	34.5	36.2	28.5	40.0	19.3	31.8	31.8	33.2	26.8	36.7	17.7
1320	85	39.4	39.4	39.8	37.9	43.5	27.9	36.9	36.9	37.1	36.3	40.4	26.4	34.3	34.3	34.3	34.2	37.1	24.7
1320	90	41.9	41.9	41.9	41.9	43.9	35.0	39.4	39.4	39.4	39.4	40.8	33.6	36.7	36.7	36.6	36.6	37.6	32.2
1440	75	35.7	34.2	39.1	23.7	43.0	13.6	33.0	32.4	36.1	22.2	39.8	11.4	30.2	30.2	33.0	20.4	36.5	10.6
1440	80	38.0	38.0	39.7	31.6	43.7	21.7	35.4	35.4	36.7	30.1	40.5	20.4	32.7	32.7	33.7	28.8	37.1	18.4
1440	85	40.5	40.5	40.6	40.0	44.0	29.3	37.9	37.9	37.9	37.9	40.9	27.8	35.2	35.2	35.2	35.2	37.6	26.2
1440	90	43.1	43.1	43.1	43.1	44.5	37.2	40.5	40.5	40.4	40.4	41.5	36.1	37.7	37.7	37.7	37.7	38.3	34.8

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
960	75	24.6	21.5	27.7	14.7	31.0	8.1	21.7	19.3	24.2	14.1	27.9	5.9
960	80	26.0	26.0	28.1	20.2	31.6	14.2	23.1	23.1	24.8	19.5	27.9	12.9
960	85	28.1	28.1	28.7	25.9	32.0	19.0	25.6	25.6	25.9	24.0	28.3	19.0
960	90	30.2	30.2	30.2	30.2	32.4	24.2	27.3	27.3	27.3	27.3	29.1	24.3
1080	75	25.3	23.7	28.3	15.8	31.6	8.3	22.6	20.3	24.8	14.9	28.4	6.6
1080	80	27.1	27.1	28.8	21.8	32.3	14.6	24.0	24.0	25.7	20.4	28.6	13.7
1080	85	29.4	29.4	29.6	28.6	32.7	20.4	26.6	26.6	26.8	25.1	29.1	20.0
1080	90	31.6	31.6	31.6	31.6	33.1	26.3	28.4	28.4	28.4	28.4	30.0	25.4
1200	75	26.0	25.5	28.8	16.7	32.1	8.5	23.3	21.2	25.4	15.6	28.9	7.1
1200	80	28.2	28.2	29.4	23.5	32.8	15.6	24.9	24.9	26.4	21.3	29.2	14.4
1200	85	30.5	30.5	30.5	30.4	33.2	21.8	27.4	27.4	27.7	26.1	29.8	20.8
1200	90	32.8	32.8	32.8	32.8	33.8	28.5	29.4	29.4	29.4	29.4	30.9	26.3
1320	75	26.7	26.7	29.3	17.8	32.6	8.7	23.9	21.9	25.9	16.2	29.2	7.5
1320	80	29.1	29.1	29.9	25.4	33.2	16.4	25.6	25.6	26.9	22.0	29.6	14.9
1320	85	31.4	31.4	31.4	31.4	33.8	23.1	28.1	28.1	28.4	27.0	30.4	21.5
1320	90	33.8	33.8	33.8	33.8	34.3	31.1	30.2	30.2	30.2	30.2	31.6	27.2
1440	75	27.4	27.4	29.7	18.6	32.9	8.9	24.3	22.6	26.2	16.6	29.4	7.7
1440	80	29.9	29.9	30.4	27.3	33.6	16.7	26.2	26.2	27.4	22.6	29.9	15.3
1440	85	32.3	32.3	32.3	32.3	34.2	24.7	28.7	28.7	29.0	27.7	30.9	22.1
1440	90	34.7	34.7	34.7	34.7	35.0	33.5	31.0	31.0	31.0	31.0	32.2	27.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 10. Gross cooling capacities 3 tons standard efficiency - three phase T/YSC036E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
960	75	33.9	27.2	37.7	20.1	41.6	12.2	31.5	25.7	35.2	18.9	38.9	11.1	29.0	24.3	32.5	17.5	36.1	9.8
960	80	34.4	33.0	38.1	25.9	42.2	18.5	32.1	31.8	35.5	24.4	39.5	16.9	29.8	29.8	32.9	23.1	36.6	15.7
960	85	36.2	36.2	38.4	31.3	42.5	24.2	34.2	34.2	35.9	29.9	39.8	22.9	32.0	32.0	33.2	28.4	37.0	21.5
960	90	38.3	38.3	38.8	36.8	42.8	29.8	36.3	36.3	36.5	35.9	40.1	28.3	34.1	34.1	34.0	34.0	37.3	27.0
1080	75	34.9	29.1	38.7	21.5	42.6	12.9	32.4	27.7	36.0	19.8	39.8	11.8	29.8	26.2	33.3	18.4	36.9	9.9
1080	80	35.6	35.6	39.0	27.6	43.2	19.3	33.5	33.5	36.4	26.1	40.3	18.2	31.2	31.2	33.6	24.7	37.4	16.7
1080	85	37.9	37.9	39.4	33.5	43.5	25.8	35.7	35.7	36.8	32.2	40.7	24.5	33.5	33.5	34.1	30.9	37.8	23.3
1080	90	40.1	40.1	40.1	40.1	43.7	31.8	38.0	38.0	37.9	37.9	41.0	30.5	35.7	35.7	35.6	35.6	38.1	29.1
1200	75	35.6	31.1	39.4	22.3	43.4	13.3	33.2	29.7	36.7	21.0	40.5	11.2	30.5	28.3	33.9	19.3	37.5	10.1
1200	80	36.9	36.9	39.8	29.2	43.9	19.6	34.7	34.7	37.2	27.8	41.1	18.7	32.4	32.4	34.4	26.3	38.1	17.9
1200	85	39.3	39.3	40.2	36.1	44.3	27.3	37.1	37.1	37.6	34.8	41.5	26.0	34.7	34.7	35.0	33.8	38.5	24.6
1200	90	41.7	41.7	41.6	41.6	44.5	33.9	39.4	39.4	39.4	39.4	41.7	32.6	37.0	37.0	37.0	37.0	38.8	31.2
1320	75	36.3	33.1	40.1	23.3	44.0	13.2	33.8	31.7	37.3	22.0	41.1	11.4	31.2	30.4	34.4	20.1	38.0	10.0
1320	80	38.1	38.1	40.5	30.9	44.6	21.0	35.8	35.8	37.8	29.4	41.7	20.1	33.4	33.4	34.9	28.1	38.6	17.9
1320	85	40.6	40.6	41.0	38.8	45.0	28.7	38.3	38.3	38.5	37.6	42.0	27.0	35.8	35.8	35.9	35.8	39.0	25.9
1320	90	43.0	43.0	43.0	43.0	45.2	36.0	40.7	40.7	40.6	40.6	42.4	34.8	38.2	38.2	38.1	38.1	39.4	33.3
1440	75	37.0	35.1	40.6	24.3	44.6	13.4	34.5	33.8	37.8	22.8	41.6	12.0	31.8	31.8	34.9	21.5	38.5	10.7
1440	80	39.1	39.1	41.1	32.6	45.2	22.3	36.8	36.8	38.3	31.1	42.2	21.2	34.3	34.3	35.4	29.8	39.1	19.6
1440	85	41.7	41.7	41.8	41.3	45.5	30.2	39.3	39.3	39.3	39.3	42.5	28.7	36.8	36.8	36.8	36.8	39.5	27.1
1440	90	44.2	44.2	44.2	44.2	45.8	38.1	41.8	41.8	41.7	41.7	43.0	36.7	39.2	39.2	39.2	39.2	39.9	35.6

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
960	75	26.3	22.8	29.6	16.2	33.0	8.4	23.5	20.8	26.1	15.4	30.1	7.0
960	80	27.5	27.5	30.0	21.7	33.5	14.8	24.8	24.7	26.7	20.9	30.0	14.0
960	85	29.6	29.6	30.4	27.0	33.9	20.3	26.5	26.5	27.7	25.5	30.3	20.2
960	90	31.7	31.7	31.6	31.6	34.2	25.5	29.0	29.0	29.0	29.0	31.0	25.6
1080	75	27.0	24.8	30.3	16.9	33.7	8.6	24.4	21.9	26.9	16.3	30.7	7.7
1080	80	28.7	28.7	30.7	23.2	34.2	15.4	25.8	25.8	27.6	21.9	30.8	14.9
1080	85	30.9	30.9	31.2	29.8	34.6	21.6	27.6	27.6	28.7	26.7	31.2	21.3
1080	90	33.1	33.1	33.1	33.1	34.9	27.5	30.2	30.2	30.2	30.2	32.0	26.8
1200	75	27.7	27.0	30.8	18.0	34.3	8.7	25.2	22.8	27.5	17.0	31.2	8.3
1200	80	29.8	29.8	31.3	24.8	34.8	15.9	26.8	26.8	28.4	22.8	31.4	15.7
1200	85	32.1	32.1	32.1	32.1	35.2	23.0	29.4	29.4	29.7	27.7	32.0	22.2
1200	90	34.4	34.4	34.3	34.3	35.6	29.8	31.3	31.3	31.3	31.3	32.9	27.8
1320	75	28.4	28.4	31.3	18.7	34.7	8.6	25.8	23.6	28.0	17.7	31.5	8.7
1320	80	30.7	30.7	31.8	26.5	35.3	17.4	27.5	27.5	29.0	23.6	31.9	16.3
1320	85	33.1	33.1	33.1	33.1	35.7	24.4	30.1	30.1	30.4	28.7	32.6	22.9
1320	90	35.5	35.5	35.5	35.5	36.1	32.0	32.2	32.2	32.2	32.2	33.7	28.7
1440	75	29.1	29.1	31.7	19.8	35.1	9.2	26.3	24.2	28.3	18.1	31.7	9.0
1440	80	31.6	31.6	32.3	28.4	35.7	18.3	28.2	28.2	29.5	24.2	32.2	16.7
1440	85	34.0	34.0	34.0	34.0	36.2	25.9	30.7	30.7	31.1	29.4	33.1	23.6
1440	90	36.4	36.4	36.4	36.4	36.7	34.6	33.0	33.0	33.0	33.0	34.3	29.5

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Performance Data

Table 11. Gross cooling capacities 4 tons standard efficiency - single phase T/YSC048E1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1280	75	45.0	35.9	50.4	26.8	56.0	16.7	41.7	34.0	46.8	24.9	52.3	15.7	38.1	31.9	43.1	22.9	48.3	13.8
1280	80	45.4	43.6	50.7	34.1	56.4	24.8	42.2	41.6	47.1	32.2	52.7	23.1	39.0	39.0	43.4	30.2	48.7	21.4
1280	85	47.7	47.7	50.9	41.5	56.7	32.1	44.9	44.9	47.5	39.6	53.0	30.3	41.8	41.8	43.8	37.7	49.1	28.4
1280	90	50.6	50.6	51.3	49.0	56.9	39.3	47.8	47.8	47.9	47.2	53.2	37.4	44.7	44.7	44.6	44.6	49.4	35.7
1440	75	46.2	38.6	51.6	28.3	57.2	17.8	42.8	36.7	48.0	26.4	53.4	15.6	39.1	34.6	44.1	24.4	49.3	15.6
1440	80	46.9	46.9	51.9	36.5	57.6	26.2	44.0	44.0	48.3	34.6	53.9	24.3	40.8	40.8	44.4	32.6	49.7	22.0
1440	85	49.9	49.9	52.2	44.8	57.9	34.2	47.0	47.0	48.6	42.9	54.1	32.3	43.8	43.8	44.9	41.1	50.1	30.4
1440	90	53.0	53.0	52.9	52.9	58.2	42.3	50.0	50.0	49.9	49.9	54.4	40.5	46.8	46.8	46.7	46.7	50.3	38.7
1600	75	47.2	41.3	52.6	29.7	58.3	18.0	43.8	39.3	48.9	27.8	54.3	18.1	40.0	37.4	44.9	25.8	50.2	14.1
1600	80	48.7	48.7	52.9	38.8	58.8	27.2	45.7	45.7	49.2	36.9	54.8	25.4	42.4	42.4	45.3	35.0	50.6	23.5
1600	85	51.9	51.9	53.3	48.2	59.0	36.2	48.8	48.8	49.7	46.4	55.1	34.4	45.5	45.5	45.9	44.4	51.0	32.5
1600	90	55.0	55.0	55.0	55.0	59.2	45.3	51.9	51.9	51.9	51.9	55.4	43.5	48.6	48.6	48.6	48.6	51.4	41.8
1760	75	48.2	44.0	53.5	31.1	59.1	18.2	44.6	42.0	49.7	29.2	55.1	16.2	40.8	40.0	45.6	27.1	50.8	14.8
1760	80	50.3	50.3	53.8	41.2	59.6	28.3	47.1	47.1	50.1	39.3	55.6	26.5	43.8	43.8	46.0	37.3	51.4	24.6
1760	85	53.6	53.6	54.2	51.5	59.9	38.3	50.4	50.4	50.7	49.7	56.0	36.4	47.0	47.0	46.9	46.9	51.7	34.6
1760	90	56.8	56.8	56.8	56.8	60.1	48.3	53.7	53.7	53.6	53.6	56.3	46.5	50.2	50.2	50.2	50.2	52.1	44.7
1920	75	48.9	46.6	54.2	32.5	59.9	20.1	45.3	44.7	50.3	30.6	55.7	17.1	41.7	41.7	46.2	28.7	51.4	14.4
1920	80	51.7	51.7	54.5	43.5	60.4	29.4	48.5	48.5	50.8	41.7	56.3	27.7	45.0	45.0	46.7	39.7	52.0	25.8
1920	85	55.0	55.0	55.3	54.9	60.6	40.3	51.8	51.8	51.8	51.8	56.6	38.5	48.3	48.3	48.3	48.3	52.4	36.6
1920	90	58.4	58.4	58.3	58.3	60.9	51.3	55.2	55.2	55.1	55.1	57.0	49.6	51.7	51.7	51.6	51.6	52.9	47.8

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1280	75	34.4	29.9	39.1	20.9	44.0	12.7	30.5	27.0	34.2	19.9	39.9	8.9
1280	80	35.7	35.7	39.4	28.2	44.5	19.2	32.2	32.0	34.9	27.0	39.6	18.1
1280	85	38.5	38.5	39.8	35.7	44.8	26.4	34.3	34.3	36.1	33.0	39.9	26.2
1280	90	41.4	41.4	41.3	41.3	45.2	33.7	37.5	37.5	37.9	37.8	40.7	33.1
1440	75	35.3	32.6	40.0	22.3	44.9	11.9	31.7	28.3	35.2	21.0	40.7	9.8
1440	80	37.4	37.4	40.3	30.6	45.5	20.3	33.5	33.5	36.1	28.3	40.6	19.2
1440	85	40.4	40.4	40.9	39.1	45.8	28.5	35.9	35.9	37.5	34.5	41.1	27.5
1440	90	43.3	43.3	43.3	43.3	46.2	36.7	39.5	39.5	39.5	39.5	42.1	34.7
1600	75	36.1	35.2	40.7	23.7	45.6	12.5	32.8	29.5	36.1	22.0	41.3	10.6
1600	80	38.9	38.9	41.2	33.0	46.3	21.4	34.8	34.8	37.1	29.6	41.4	20.3
1600	85	41.9	41.9	42.0	42.0	46.6	30.6	37.3	37.3	38.7	36.0	42.1	28.8
1600	90	45.0	45.0	45.0	45.0	47.0	39.8	40.9	40.9	40.9	40.9	43.3	36.1
1760	75	37.0	37.0	41.3	25.2	46.3	12.6	33.6	30.6	36.8	22.9	41.8	11.4
1760	80	40.2	40.2	41.8	35.3	46.8	22.6	35.8	35.8	38.0	30.7	42.1	21.2
1760	85	43.4	43.4	43.3	43.3	47.2	32.6	38.6	38.6	39.8	37.3	42.9	29.9
1760	90	46.5	46.5	46.4	46.4	47.7	42.8	42.1	42.1	42.1	42.1	44.3	37.5
1920	75	38.1	38.1	41.8	26.5	46.8	12.4	34.4	31.7	37.3	23.8	42.1	12.0
1920	80	41.3	41.3	42.4	37.7	47.4	23.7	36.7	36.7	38.7	31.8	42.6	22.1
1920	85	44.6	44.6	44.6	44.6	47.9	34.7	39.7	39.7	40.7	38.6	43.6	31.0
1920	90	47.8	47.8	47.8	47.8	48.3	45.8	43.2	43.2	43.2	43.2	45.2	38.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 12. Gross cooling capacities 4 tons standard efficiency - three phase T/YSC048E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1280	75	45.0	36.2	50.4	27.1	56.1	17.9	41.6	34.3	47.0	25.4	52.3	15.7	38.1	32.3	43.1	23.0	48.3	13.8
1280	80	45.5	43.8	50.8	34.4	56.6	25.0	42.3	42.0	47.3	32.6	52.8	24.0	39.2	39.2	43.5	30.6	48.7	20.6
1280	85	48.1	48.1	51.2	42.0	56.9	32.4	45.2	45.2	47.7	40.1	53.2	30.5	42.2	42.2	44.0	38.1	49.3	29.3
1280	90	51.1	51.1	51.7	49.4	57.3	39.8	48.2	48.2	48.3	47.7	53.6	38.0	45.1	45.1	45.1	45.1	49.6	36.3
1440	75	46.2	38.9	51.7	28.6	57.3	17.6	42.8	37.0	48.0	26.6	53.5	16.0	39.2	35.0	44.1	24.5	49.3	14.0
1440	80	47.2	47.2	52.0	36.8	57.9	25.5	44.2	44.2	48.4	34.9	54.0	24.4	41.1	41.1	44.6	33.1	49.9	22.8
1440	85	50.4	50.4	52.5	45.3	58.3	34.5	47.4	47.4	48.9	43.4	54.4	32.7	44.2	44.2	45.2	41.5	50.3	31.0
1440	90	53.5	53.5	53.5	53.5	58.7	42.8	50.5	50.5	50.4	50.4	54.8	40.9	47.3	47.3	47.2	47.2	50.8	39.2
1600	75	47.3	41.6	52.7	29.9	58.3	17.6	43.8	39.7	48.9	27.9	54.4	16.2	40.1	37.6	44.9	25.9	50.1	14.1
1600	80	49.1	49.1	53.1	39.2	59.0	27.8	46.0	46.0	49.4	37.3	55.0	25.6	42.7	42.7	45.5	35.5	50.8	23.8
1600	85	52.3	52.3	53.7	48.6	59.4	36.5	49.3	49.3	50.0	46.6	55.4	35.0	46.0	46.0	46.2	44.9	51.2	32.9
1600	90	55.6	55.6	55.6	55.6	59.8	45.8	52.5	52.5	52.4	52.4	55.9	44.1	49.2	49.2	49.1	49.1	51.8	42.3
1760	75	48.3	44.3	53.5	31.3	59.3	18.4	44.7	42.3	49.7	29.3	55.2	16.2	41.0	40.5	45.6	27.7	50.8	14.5
1760	80	50.7	50.7	54.1	41.6	59.9	28.9	47.6	47.6	50.3	39.7	55.9	27.0	44.1	44.1	46.3	37.8	51.5	24.7
1760	85	54.1	54.1	54.7	51.9	60.3	38.6	50.9	50.9	51.1	50.2	56.3	36.8	47.5	47.5	47.4	47.4	52.0	34.8
1760	90	57.5	57.5	57.5	57.5	60.8	48.9	54.3	54.3	54.3	54.3	56.9	47.2	50.8	50.8	50.7	50.7	52.6	45.2
1920	75	49.1	46.9	54.3	32.9	59.9	18.3	45.5	45.0	50.4	30.8	55.8	16.6	42.0	42.0	46.2	29.0	51.3	15.3
1920	80	52.1	52.1	54.8	44.1	60.7	30.0	48.9	48.9	51.1	42.1	56.5	27.3	45.4	45.4	46.9	40.1	52.1	26.2
1920	85	55.6	55.6	55.7	55.3	61.1	40.8	52.3	52.3	52.3	52.3	57.0	38.9	48.8	48.8	48.8	48.8	52.7	37.1
1920	90	59.2	59.2	59.2	59.2	61.6	52.0	55.8	55.8	55.8	55.8	57.6	50.1	52.3	52.3	52.2	52.2	53.4	48.1

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1280	75	34.3	30.2	39.0	21.0	44.0	11.9	30.7	27.2	34.3	20.3	39.9	9.6
1280	80	36.0	36.0	39.5	28.6	44.5	19.5	32.4	32.2	35.1	27.4	39.7	18.8
1280	85	38.9	38.9	40.0	36.2	45.0	26.7	34.7	34.7	36.4	33.4	40.1	26.8
1280	90	41.8	41.8	41.7	41.7	45.4	34.2	37.9	37.9	38.3	38.2	41.0	33.7
1440	75	35.3	32.9	39.9	22.7	44.8	11.5	31.8	28.6	35.3	21.5	40.6	10.6
1440	80	37.7	37.7	40.5	31.1	45.5	20.6	33.8	33.8	36.3	28.9	40.7	20.0
1440	85	40.8	40.8	41.0	39.5	46.0	28.8	36.3	36.3	37.8	35.0	41.3	28.2
1440	90	43.8	43.8	43.7	43.7	46.4	37.2	39.9	39.9	39.9	39.9	42.4	35.3
1600	75	36.2	35.7	40.7	23.7	45.5	11.5	32.9	29.9	36.1	22.6	41.2	11.4
1600	80	39.2	39.2	41.3	33.4	46.3	21.7	35.0	35.0	37.3	30.1	41.5	21.0
1600	85	42.4	42.4	42.3	42.3	46.8	30.9	37.7	37.7	39.0	36.5	42.3	29.5
1600	90	45.5	45.5	45.5	45.5	47.4	40.5	41.3	41.3	41.3	41.3	43.6	36.8
1760	75	37.2	37.2	41.3	25.7	46.2	12.5	33.7	31.0	36.7	23.5	41.7	12.1
1760	80	40.5	40.5	42.0	35.8	46.9	23.0	36.1	36.1	38.1	31.3	42.1	21.9
1760	85	43.8	43.8	43.8	43.8	47.5	32.9	38.9	38.9	40.1	37.9	43.1	30.6
1760	90	47.0	47.0	46.9	46.9	48.1	43.4	42.6	42.6	42.6	42.6	44.7	38.2
1920	75	38.3	38.3	41.8	26.9	46.8	13.0	34.4	32.0	37.2	24.2	42.0	12.6
1920	80	41.7	41.7	42.6	38.1	47.5	24.1	37.0	37.0	38.8	32.2	42.6	22.7
1920	85	45.0	45.0	44.9	44.9	48.0	35.0	40.6	40.6	41.0	39.1	43.8	31.6
1920	90	48.4	48.4	48.4	48.4	48.8	46.4	43.7	43.7	43.7	43.7	45.6	39.4

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Performance Data

Table 13. Gross cooling capacities 5 tons standard efficiency - single phase T/YSC060E1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1600	75	55.1	45.0	61.1	33.1	67.6	20.1	51.4	43.0	57.2	30.8	63.4	18.3	47.4	40.9	53.0	29.1	58.9	16.5
1600	80	55.7	54.7	61.5	42.2	68.0	29.8	52.2	52.2	57.6	40.3	63.9	28.0	48.7	48.7	53.4	38.3	59.4	26.1
1600	85	58.6	58.6	61.9	51.6	68.4	39.3	55.5	55.5	58.0	49.7	64.2	37.4	52.0	52.0	53.8	47.8	59.7	35.5
1600	90	62.1	62.1	62.5	61.3	68.7	48.5	58.8	58.8	58.9	58.8	64.5	46.6	55.3	55.3	55.2	55.2	60.1	44.8
1800	75	56.4	48.2	62.4	34.4	69.0	21.3	52.6	46.3	58.4	32.8	64.7	18.5	48.5	44.2	54.1	30.8	60.1	17.6
1800	80	57.5	57.5	62.8	45.1	69.4	31.1	54.3	54.3	58.9	43.2	65.2	29.5	50.7	50.7	54.5	41.2	60.5	27.6
1800	85	61.1	61.1	63.3	55.7	69.8	41.7	57.8	57.8	59.3	53.8	65.5	39.9	54.2	54.2	55.1	51.9	60.9	38.0
1800	90	64.7	64.7	64.6	64.6	70.1	52.1	61.3	61.3	61.2	61.2	65.9	50.3	57.6	57.6	57.6	57.6	61.3	48.4
2000	75	57.5	51.4	63.6	36.1	70.1	21.4	53.7	49.5	59.5	34.1	65.8	19.9	49.6	47.6	55.0	32.2	61.1	17.4
2000	80	59.5	59.5	64.0	47.9	70.6	32.6	56.1	56.1	59.9	46.0	66.3	30.7	52.5	52.5	55.5	44.1	61.6	28.8
2000	85	63.2	63.2	64.6	59.7	71.0	44.1	59.8	59.8	60.5	58.0	66.6	42.5	56.1	56.1	56.4	56.0	61.9	40.4
2000	90	67.0	67.0	66.9	66.9	71.4	55.8	63.5	63.5	63.5	63.5	67.0	53.9	59.7	59.7	59.6	59.6	62.3	52.1
2200	75	58.6	54.7	64.6	37.8	71.2	22.1	54.7	52.8	60.3	35.9	66.7	18.5	50.6	50.3	55.8	34.0	61.9	17.6
2200	80	61.3	61.3	65.0	50.7	71.6	33.9	57.8	57.8	60.8	48.9	67.2	32.1	54.0	54.0	56.3	47.0	62.3	30.2
2200	85	65.1	65.1	65.8	63.9	72.0	46.6	61.6	61.6	61.8	61.6	67.5	44.8	57.8	57.8	57.7	57.7	62.7	42.9
2200	90	69.0	69.0	68.9	68.9	72.4	59.3	65.4	65.4	65.4	65.4	68.0	57.7	61.4	61.4	61.4	61.4	63.2	55.8
2400	75	59.5	57.9	65.4	39.5	72.1	20.4	55.6	55.4	61.1	37.6	67.4	19.7	51.6	51.6	56.5	35.6	62.5	17.6
2400	80	62.8	62.8	65.9	53.6	72.5	34.9	59.2	59.2	61.6	51.8	68.0	33.5	55.3	55.3	57.0	49.8	63.1	31.5
2400	85	66.8	66.8	66.9	66.8	72.9	49.2	63.2	63.2	63.2	63.2	68.3	47.3	59.2	59.2	59.1	59.1	63.4	45.4
2400	90	70.9	70.9	70.7	70.7	73.3	63.1	67.0	67.0	67.0	67.0	68.8	61.4	63.0	63.0	62.9	62.9	64.0	59.7

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1600	75	43.1	38.8	48.4	26.7	54.1	14.9	38.8	35.1	43.0	26.2	49.3	12.2
1600	80	45.0	45.0	48.8	36.3	54.5	24.2	40.7	40.7	43.7	35.0	48.9	23.7
1600	85	48.2	48.2	49.3	45.8	54.8	33.5	43.2	43.2	45.1	42.3	49.2	33.8
1600	90	51.4	51.4	51.4	51.4	55.1	42.8	47.1	47.1	47.1	47.1	50.1	42.4
1800	75	44.2	42.1	49.4	28.4	55.1	15.2	40.2	36.6	44.1	27.4	50.2	13.2
1800	80	46.9	46.9	49.8	39.1	55.5	25.5	42.2	42.2	45.0	36.5	50.1	25.0
1800	85	50.2	50.2	50.5	49.9	55.8	35.9	44.9	44.9	46.6	44.1	50.5	35.3
1800	90	53.5	53.5	53.5	53.5	56.2	46.5	48.8	48.8	48.8	48.8	51.6	44.1
2000	75	45.2	45.0	50.2	30.2	55.9	15.2	41.3	38.0	45.0	28.6	50.9	14.0
2000	80	48.5	48.5	50.7	42.0	56.3	26.9	43.6	43.6	46.2	37.8	51.0	26.1
2000	85	51.9	51.9	51.9	51.9	56.7	38.5	46.5	46.5	48.0	45.6	51.7	36.6
2000	90	55.4	55.4	55.4	55.4	57.2	50.2	50.4	50.4	50.4	50.4	53.0	45.7
2200	75	46.3	46.3	50.9	31.9	56.6	15.6	42.3	39.2	45.7	29.5	51.4	14.7
2200	80	49.8	49.8	51.4	44.9	57.0	28.2	44.8	44.8	47.1	39.0	51.7	27.0
2200	85	53.4	53.4	53.4	53.4	57.4	41.0	47.9	47.9	49.1	47.0	52.6	37.8
2200	90	57.0	57.0	57.0	57.0	58.0	54.0	51.8	51.8	51.8	51.8	54.2	47.1
2400	75	47.5	47.5	51.5	33.6	57.2	15.7	43.1	40.2	46.3	30.3	51.8	15.3
2400	80	51.0	51.0	52.1	47.9	57.6	29.6	45.8	45.8	47.9	40.0	52.3	27.8
2400	85	54.7	54.7	54.7	54.7	58.0	43.6	49.6	49.6	50.1	48.3	53.4	38.8
2400	90	58.4	58.4	58.4	58.4	58.8	57.7	53.0	53.0	53.0	53.0	55.2	48.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 14. Gross cooling capacities 5 tons standard efficiency - three phase T/YSC060E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1600	75	57.3	46.6	63.6	34.8	70.2	23.4	53.3	44.5	59.4	32.7	65.8	21.3	49.2	42.2	55.0	30.7	61.1	18.4
1600	80	57.8	56.1	63.9	44.0	70.7	32.1	54.0	53.9	59.7	41.9	66.2	30.2	50.4	50.4	55.3	39.9	61.5	28.5
1600	85	60.9	60.9	64.4	53.5	71.0	41.1	57.5	57.5	60.2	51.5	66.5	39.1	53.8	53.8	55.7	49.2	61.8	36.9
1600	90	64.4	64.4	64.9	62.9	71.3	50.3	60.9	60.9	60.8	60.7	66.9	48.7	57.2	57.2	57.1	57.1	62.1	46.2
1800	75	58.8	50.1	65.0	36.7	71.7	22.6	54.7	47.9	60.6	35.4	67.1	20.8	50.3	45.5	56.1	32.4	62.3	19.5
1800	80	59.9	59.9	65.4	47.0	72.1	33.4	56.3	56.3	61.1	44.9	67.5	31.4	52.6	52.6	56.6	42.9	62.7	29.6
1800	85	63.5	63.5	65.9	57.7	72.5	43.9	59.9	59.9	61.6	55.6	67.9	41.6	56.1	56.1	57.0	53.3	63.0	39.8
1800	90	67.1	67.1	67.1	67.1	72.9	54.1	63.5	63.5	63.5	63.5	68.2	52.3	59.6	59.6	59.5	59.5	63.4	50.3
2000	75	60.0	53.4	66.2	38.7	72.9	24.5	55.8	51.1	61.8	35.8	68.2	22.4	51.5	49.0	57.1	34.3	63.3	20.3
2000	80	62.0	62.0	66.7	50.2	73.4	35.3	58.4	58.4	62.3	48.1	68.6	33.6	54.5	54.5	57.6	46.0	63.6	30.5
2000	85	65.8	65.8	67.2	61.8	73.8	46.5	62.1	62.1	62.8	59.8	69.1	44.7	58.1	58.1	58.1	57.5	64.1	42.6
2000	90	69.6	69.6	69.6	69.6	74.1	58.0	65.8	65.8	65.8	65.8	69.3	56.1	61.7	61.7	61.7	61.7	64.5	54.2
2200	75	61.0	56.8	67.3	41.3	74.0	24.2	56.8	54.4	62.7	38.2	69.2	22.2	52.4	52.1	58.0	36.2	64.1	21.3
2200	80	63.9	63.9	67.7	53.1	74.5	38.1	60.1	60.1	63.2	51.0	69.6	35.1	56.1	56.1	58.5	49.0	64.6	32.2
2200	85	67.8	67.8	68.4	66.0	74.8	49.4	64.0	64.0	64.0	63.7	70.0	47.3	59.9	59.9	59.7	59.7	64.9	45.4
2200	90	71.7	71.7	71.8	71.8	75.2	62.0	67.8	67.8	67.8	67.8	70.4	60.1	63.6	63.6	63.5	63.5	65.2	57.8
2400	75	62.0	60.1	68.1	42.2	74.9	24.2	57.8	57.6	63.5	40.0	70.0	22.2	53.7	53.7	58.7	38.0	64.9	20.6
2400	80	65.6	65.6	68.6	56.1	75.2	39.4	61.7	61.7	64.0	54.1	70.5	36.4	57.6	57.6	59.2	51.9	65.3	34.4
2400	85	69.6	69.6	69.6	69.5	75.7	51.8	65.7	65.7	65.6	65.6	70.9	50.1	61.4	61.4	61.4	61.4	65.7	47.9
2400	90	73.6	73.6	73.5	73.5	76.2	65.7	69.6	69.6	69.5	69.5	71.2	63.6	65.2	65.2	65.2	65.2	66.1	61.5

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1600	75	44.8	40.0	50.2	28.5	56.0	17.0	40.6	36.3	44.9	27.9	51.4	15.0
1600	80	46.6	46.6	50.6	37.7	56.4	26.1	42.5	42.2	45.7	36.3	51.0	25.9
1600	85	49.9	49.9	51.0	47.0	56.7	35.0	45.1	45.1	47.0	43.3	51.3	35.3
1600	90	53.1	53.1	53.1	53.1	57.1	44.4	48.6	48.6	49.1	48.8	52.2	43.4
1800	75	45.8	43.3	51.2	30.4	57.1	18.0	42.0	38.0	46.0	29.4	52.3	16.2
1800	80	48.6	48.6	51.7	40.7	57.4	27.8	44.1	44.1	47.0	38.1	52.1	27.4
1800	85	52.0	52.0	52.2	51.2	57.8	37.7	46.9	46.9	48.6	45.3	52.6	37.1
1800	90	55.4	55.4	55.3	55.3	58.2	48.2	50.9	50.9	50.9	50.9	53.7	45.4
2000	75	46.9	46.7	52.1	32.2	58.0	16.9	43.2	39.6	47.0	30.7	53.0	17.3
2000	80	50.3	50.3	52.6	43.7	58.3	29.6	45.6	45.6	48.2	39.6	53.0	28.7
2000	85	53.8	53.8	53.8	53.8	58.7	40.5	48.5	48.5	50.0	47.1	53.8	38.7
2000	90	57.3	57.3	57.3	57.3	59.1	52.0	52.5	52.5	52.5	52.5	55.1	47.3
2200	75	48.2	48.2	52.9	34.0	58.7	17.6	44.2	40.9	47.7	31.8	53.5	18.2
2200	80	51.8	51.8	53.4	46.7	59.0	30.4	46.8	46.8	49.2	41.0	53.8	29.9
2200	85	55.4	55.4	55.4	55.4	59.4	43.1	50.0	50.0	51.2	48.8	54.7	40.2
2200	90	59.0	59.0	59.0	59.0	59.9	55.7	53.9	53.9	53.9	53.9	56.3	49.0
2400	75	49.3	49.3	53.5	35.7	59.3	17.7	45.0	42.1	48.3	32.8	53.8	18.9
2400	80	53.1	53.1	54.0	49.5	59.7	32.2	47.8	47.8	49.9	42.2	54.3	30.9
2400	85	56.8	56.8	56.8	56.8	60.1	45.8	51.7	51.7	52.2	50.3	55.5	41.4
2400	90	60.5	60.5	60.5	60.5	60.7	59.5	55.2	55.2	55.2	55.2	57.3	50.5

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 15. Gross cooling capacities 6 tons standard efficiency - three phase T/YSC072F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1920	75	69.0	55.1	75.2	40.7	83.7	19.8	65.0	52.5	70.8	38.6	79.0	18.1	60.7	49.8	66.2	36.3	74.0	16.3
1920	80	70.7	64.2	75.8	53.2	83.1	35.7	66.8	61.4	71.5	50.9	78.5	33.8	62.6	58.5	66.9	48.3	73.6	31.7
1920	85	73.0	71.4	76.9	63.8	83.1	49.8	69.2	68.4	72.7	61.3	78.5	47.6	65.1	65.1	68.2	58.5	73.7	45.3
1920	90	75.9	75.9	78.6	72.6	83.6	62.0	72.1	72.1	74.5	69.8	79.1	59.6	68.1	68.1	70.1	66.8	74.3	57.0
2160	75	71.0	57.3	77.0	42.5	85.3	21.2	66.9	54.7	72.5	40.3	80.4	19.4	62.5	51.8	67.8	37.9	75.3	17.5
2160	80	73.0	66.6	77.8	55.2	84.9	37.4	68.9	63.8	73.4	52.8	80.1	35.4	64.6	60.7	68.7	50.2	75.1	33.2
2160	85	75.5	74.1	79.1	66.1	85.0	51.7	71.5	71.0	74.8	63.4	80.3	49.4	67.3	67.3	70.2	60.5	75.4	46.9
2160	90	78.5	78.5	81.0	75.1	85.7	64.1	74.6	74.6	76.7	72.2	81.1	61.6	70.5	70.5	72.2	69.1	76.3	58.9
2400	75	72.8	59.3	78.5	44.1	86.5	22.5	68.6	56.6	73.9	41.8	81.6	20.6	64.1	53.6	69.1	39.3	76.4	18.5
2400	80	74.9	68.9	79.5	57.1	86.3	38.8	70.8	65.9	75.0	54.5	81.5	36.7	66.4	62.7	70.2	51.8	76.4	34.4
2400	85	77.6	76.6	81.0	68.2	86.7	53.4	73.6	73.4	76.6	65.4	81.9	51.0	69.2	69.2	71.9	62.4	76.9	48.4
2400	90	80.9	80.9	83.1	77.5	87.6	66.0	76.9	76.9	78.8	74.4	82.9	63.4	72.7	72.7	74.2	71.2	77.9	60.6
2640	75	74.3	61.2	79.8	45.6	87.6	23.5	70.0	58.3	75.1	43.2	82.5	21.5	65.4	55.3	70.2	40.6	77.2	19.3
2640	80	76.7	71.0	81.0	58.8	87.6	40.1	72.4	67.9	76.4	56.1	82.6	37.9	67.9	64.6	71.5	53.3	77.4	35.5
2640	85	79.6	78.9	82.7	70.1	88.1	54.9	75.4	75.4	78.2	67.2	83.2	52.4	71.0	71.0	73.4	64.1	78.1	49.7
2640	90	83.0	83.0	85.0	79.6	89.2	67.7	78.9	78.9	80.5	76.5	84.4	65.0	74.6	74.6	75.8	73.1	79.4	62.1
2880	75	75.6	62.9	80.8	46.9	88.4	24.4	71.1	59.9	76.0	44.4	83.2	22.3	66.5	56.8	71.0	41.6	77.8	20.0
2880	80	78.1	72.9	82.2	60.3	88.6	41.3	73.8	69.7	77.5	57.5	83.5	38.9	69.2	66.3	72.5	54.6	78.2	36.4
2880	85	81.2	81.1	84.1	71.9	89.3	56.2	76.9	76.9	79.5	68.9	84.3	53.6	72.4	72.4	74.6	65.7	79.1	50.9
2880	90	84.9	84.9	86.6	81.6	90.6	69.3	80.7	80.7	82.0	78.3	85.7	66.5	76.2	76.2	77.2	74.9	80.5	63.5

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1920	75	56.2	46.9	61.3	33.8	68.8	14.3	51.4	43.8	56.2	31.2	63.3	12.0
1920	80	58.2	55.3	62.2	45.6	68.4	29.4	53.5	52.0	57.1	42.7	63.0	27.0
1920	85	60.7	60.7	63.5	55.5	68.6	42.8	56.1	56.1	58.6	52.4	63.3	40.1
1920	90	64.8	64.8	65.4	63.6	69.4	54.2	60.0	60.0	60.6	60.2	64.1	51.3
2160	75	57.9	48.8	62.8	35.3	70.0	15.3	53.0	45.6	57.6	32.5	64.4	13.0
2160	80	60.1	57.4	63.8	47.3	69.9	30.8	55.3	54.0	58.7	44.3	64.4	28.2
2160	85	62.8	62.8	65.4	57.5	70.2	44.3	58.1	58.1	60.3	54.2	64.8	41.5
2160	90	66.8	66.8	67.5	65.8	71.2	56.0	61.9	61.9	62.5	62.3	65.9	52.9
2400	75	59.4	50.5	64.0	36.6	71.0	16.2	54.4	47.2	58.7	33.7	65.3	13.8
2400	80	61.7	59.4	65.2	48.9	71.0	31.9	56.9	55.8	60.0	45.7	65.4	29.2
2400	85	64.7	64.7	67.0	59.2	71.6	45.7	59.9	59.9	61.8	55.9	66.1	42.7
2400	90	68.6	68.6	69.3	67.7	72.8	57.6	63.6	63.6	64.2	64.1	67.3	54.4
2640	75	60.6	52.1	65.0	37.7	71.7	17.0	55.5	48.6	59.6	34.8	65.9	14.4
2640	80	63.2	61.1	66.4	50.2	71.9	32.9	58.2	57.5	61.1	47.0	66.2	30.1
2640	85	66.3	66.3	68.4	60.8	72.7	46.9	61.4	61.4	63.1	57.4	67.1	43.8
2640	90	70.2	70.2	70.9	69.6	74.1	59.0	65.7	65.7	65.7	65.7	68.5	55.7
2880	75	61.5	53.4	65.7	38.7	72.2	17.5	56.3	49.9	60.2	35.6	66.3	14.9
2880	80	64.3	62.7	67.3	51.4	72.6	33.6	59.2	59.0	61.9	48.1	66.8	30.7
2880	85	67.6	67.6	69.5	62.3	73.6	47.9	62.6	62.6	64.1	58.7	67.9	44.7
2880	90	71.5	71.5	72.2	71.2	75.1	60.3	66.9	66.9	66.9	66.9	69.5	56.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 16. Gross cooling capacities 7½ tons standard efficiency - three phase T/YSC090F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2400	75	82.8	67.2	88.9	49.1	97.0	22.6	78.5	64.5	84.3	46.9	92.1	21.0	73.7	61.4	79.2	44.4	86.8	19.0
2400	80	85.3	78.3	90.1	64.6	97.0	42.5	81.0	75.4	85.5	62.1	92.1	40.6	76.3	72.0	80.5	59.3	86.8	38.3
2400	85	88.4	87.2	91.9	77.8	97.5	60.0	84.2	83.9	100.8	10.6	83.3	83.3	79.4	79.4	82.3	72.0	87.4	55.3
2400	90	92.1	92.1	94.3	88.7	98.6	75.3	87.0	87.0	87.9	87.7	93.8	72.8	83.2	83.2	84.8	82.3	88.6	69.9
2700	75	84.9	69.8	90.6	51.4	98.4	24.6	80.5	67.0	85.9	49.1	93.4	22.8	75.6	63.8	80.7	46.5	88.0	20.7
2700	80	87.6	81.2	92.1	67.1	98.6	44.7	83.2	78.1	87.4	64.5	93.7	42.6	78.4	74.6	82.2	61.6	88.2	40.2
2700	85	90.9	90.3	94.1	80.5	99.4	62.4	86.6	86.6	102.0	12.4	86.6	86.6	81.7	81.7	84.3	74.4	89.0	57.4
2700	90	94.8	94.8	96.7	91.7	100.7	77.9	90.5	90.5	92.1	88.5	95.8	75.3	85.7	85.7	87.0	85.0	90.5	72.3
3000	75	86.7	72.2	92.1	53.4	99.6	26.3	82.2	69.2	87.3	51.0	94.5	24.4	77.2	65.9	82.0	48.2	88.9	22.1
3000	80	89.7	83.8	93.8	69.3	100.0	46.5	85.2	80.5	89.0	66.6	94.9	44.4	80.2	76.9	83.7	63.5	89.4	41.8
3000	85	93.2	93.1	96.0	83.0	101.0	64.5	94.9	44.4	103.0	13.8	96.0	62.0	83.8	83.8	86.1	76.6	90.5	59.2
3000	90	97.3	97.3	98.9	94.3	102.5	80.2	92.9	92.9	94.2	91.0	97.6	77.4	88.1	88.1	89.0	87.3	92.1	74.3
3300	75	88.2	74.2	93.3	55.1	100.5	27.6	83.6	71.1	88.4	52.5	95.3	25.6	78.5	67.6	83.0	49.6	89.6	23.2
3300	80	91.4	86.0	95.2	71.2	101.1	48.1	86.8	82.6	90.3	68.4	95.9	45.8	81.7	78.9	85.0	65.2	90.3	43.1
3300	85	95.2	95.2	97.7	85.1	102.3	66.3	95.9	45.8	103.6	14.8	97.2	63.7	85.6	85.6	87.5	78.4	91.6	60.7
3300	90	99.5	99.5	100.8	96.6	104.1	82.2	95.0	95.0	96.0	93.2	99.0	79.3	89.8	89.8	90.7	89.4	93.5	76.0
3600	75	89.5	75.9	94.2	56.4	101.1	28.6	84.8	72.7	89.2	53.7	95.8	26.5	79.5	69.1	83.7	50.7	90.0	24.0
3600	80	92.9	87.9	96.4	72.8	101.9	49.3	85.2	80.5	91.4	69.8	96.7	46.9	83.0	80.5	85.9	66.5	90.9	44.1
3600	85	96.9	96.9	99.1	86.9	103.4	67.7	96.7	46.9	104.1	15.6	98.2	65.0	87.1	87.1	88.7	79.9	90.5	59.2
3600	90	101.5	101.5	102.4	98.6	105.4	83.8	96.9	96.9	97.5	95.0	100.2	80.8	91.2	91.2	92.1	91.1	94.5	77.4

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2400	75	68.4	58.0	73.6	41.5	80.9	16.7	62.7	54.2	67.6	38.3	74.6	14.0
2400	80	71.0	68.3	75.0	56.2	81.0	35.7	65.3	64.2	69.0	52.6	74.7	32.7
2400	85	74.2	74.2	76.9	68.5	81.6	52.3	68.5	68.5	70.9	64.7	75.4	49.1
2400	90	78.6	78.6	79.4	78.5	82.8	66.7	73.4	73.4	73.4	73.4	76.6	63.1
2700	75	70.2	60.3	75.1	43.4	82.0	18.3	64.3	56.4	68.9	40.1	75.6	15.5
2700	80	73.0	70.8	76.6	58.3	82.3	37.5	67.2	66.6	70.5	54.6	76.0	34.3
2700	85	76.4	76.4	78.8	70.8	83.2	54.3	70.7	70.7	72.7	66.9	76.8	50.9
2700	90	80.7	80.7	81.5	81.1	84.6	68.9	75.5	75.5	75.5	75.5	78.3	65.2
3000	75	71.7	62.2	76.2	45.0	82.9	19.5	65.7	58.2	70.0	41.6	76.4	16.6
3000	80	74.7	72.9	78.0	60.1	83.4	38.9	68.8	68.6	71.8	56.3	76.9	35.7
3000	85	78.4	78.4	80.4	72.9	84.5	56.0	72.5	72.5	74.2	68.8	78.1	52.5
3000	90	82.5	82.5	83.3	83.3	86.2	70.8	77.2	77.2	77.2	77.2	79.8	67.0
3300	75	72.9	63.8	77.1	46.3	83.5	20.5	66.9	59.6	70.8	42.7	76.9	17.4
3300	80	76.2	74.7	79.2	61.6	84.2	40.1	70.2	70.2	72.9	57.7	77.6	36.7
3300	85	80.1	80.1	81.7	74.6	85.5	57.4	74.1	74.1	75.5	70.3	79.0	53.7
3300	90	84.9	84.9	84.9	84.9	87.4	72.4	78.7	78.7	78.7	78.7	80.9	68.4
3600	75	73.9	65.1	76.2	45.0	73.9	65.1	67.7	60.8	71.3	43.5	77.1	17.9
3600	80	77.4	76.2	80.0	62.8	84.7	40.9	71.3	71.3	73.6	58.7	78.1	37.4
3600	85	81.5	81.5	82.8	75.9	86.3	58.4	75.4	75.4	76.5	71.6	79.6	54.6
3600	90	86.2	86.2	86.2	86.2	88.4	73.6	79.9	79.9	79.9	79.9	81.8	69.5

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 17. Gross cooling capacities 7½ tons standard efficiency - three phase T/YSC092F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2400	75	87.1	70.9	94.8	53.8	105.4	29.1	82.4	67.9	89.7	51.4	99.9	27.2	77.5	64.7	84.3	48.6	94.1	24.9
2400	80	88.8	81.7	95.0	68.8	104.0	48.3	84.2	78.4	90.0	66.1	98.6	46.1	79.3	74.9	84.6	63.0	92.8	43.5
2400	85	91.2	90.1	95.8	81.5	103.3	65.2	86.7	86.6	90.8	78.4	97.9	62.6	81.8	81.8	85.6	75.1	92.2	59.7
2400	90	94.2	94.2	97.3	91.8	103.2	79.7	89.8	89.8	92.4	88.4	97.9	76.8	85.0	85.0	87.1	84.8	92.2	73.6
2700	75	89.5	73.7	96.8	56.3	107.1	31.2	84.7	70.7	91.6	53.7	101.5	29.1	79.6	67.3	86.1	50.9	95.5	26.7
2700	80	91.4	84.7	97.3	71.5	106.0	50.6	86.7	81.4	92.1	68.6	100.4	48.2	81.7	77.7	86.6	65.4	94.5	45.5
2700	85	94.1	93.4	98.3	84.4	105.5	67.7	89.4	89.4	93.2	81.2	100.0	65.0	84.4	84.4	87.8	77.7	94.1	62.0
2700	90	97.3	97.3	100.0	94.9	105.7	82.4	92.7	92.7	95.0	91.4	100.2	79.4	87.8	87.8	89.6	87.6	94.4	76.0
3000	75	91.6	76.4	98.6	58.6	108.6	33.1	86.7	73.2	93.3	55.8	102.8	30.8	81.4	69.7	87.6	52.8	96.7	28.3
3000	80	93.8	87.6	99.3	73.9	107.7	52.7	88.9	84.1	94.0	70.9	102.0	50.1	83.7	80.3	88.4	67.6	95.9	47.3
3000	85	96.7	96.4	100.6	87.0	107.5	69.9	91.8	91.8	95.4	83.7	101.8	67.1	86.7	86.7	89.8	80.0	95.8	63.9
3000	90	100.1	100.1	102.5	97.7	107.8	84.8	95.4	95.4	97.4	94.1	102.2	81.7	90.9	90.9	91.8	90.1	96.3	78.2
3300	75	93.4	78.7	100.2	60.5	109.8	34.7	88.4	75.4	94.7	57.7	103.9	32.3	83.0	71.8	88.8	54.5	97.6	29.6
3300	80	95.9	90.1	101.1	76.1	109.2	54.5	90.9	86.5	95.6	73.0	103.3	51.8	85.5	82.6	89.8	69.5	97.1	48.8
3300	85	99.0	99.0	102.6	89.4	109.1	71.9	94.0	94.0	97.2	85.9	103.3	68.9	88.7	88.7	91.5	82.1	97.2	65.6
3300	90	102.7	102.7	104.8	100.3	109.8	87.0	97.8	97.8	99.4	96.5	104.0	83.7	92.8	92.8	93.8	92.4	97.9	80.1
3600	75	95.0	80.8	101.4	62.2	110.7	36.0	89.8	77.3	95.8	59.2	104.7	33.5	84.2	73.6	89.8	55.9	98.3	30.6
3600	80	97.7	92.4	102.6	78.0	110.3	56.0	92.5	88.7	97.0	74.7	104.3	53.1	87.0	84.6	91.0	71.1	98.0	50.0
3600	85	101.0	101.0	104.3	91.5	110.5	73.6	95.9	95.9	98.8	87.9	104.6	70.5	90.5	90.5	92.9	84.0	98.3	67.1
3600	90	105.0	105.0	106.7	102.6	111.4	88.9	99.9	99.9	101.3	98.7	105.5	85.5	94.5	94.5	95.5	94.5	99.3	81.8

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2400	75	72.2	61.2	78.6	45.6	87.9	22.3	66.5	57.4	72.5	42.2	81.4	19.5
2400	80	74.1	71.1	78.9	59.7	86.7	40.6	68.5	66.9	72.9	56.0	80.3	37.4
2400	85	76.6	76.6	79.9	71.4	86.2	56.5	71.1	71.1	74.0	67.5	79.8	53.1
2400	90	80.8	80.8	81.6	80.8	86.3	70.1	75.7	75.7	75.7	75.7	79.9	66.3
2700	75	74.1	63.7	80.2	47.7	89.2	24.0	68.3	59.7	74.0	44.2	82.6	21.0
2700	80	76.3	73.7	80.8	62.0	88.3	42.5	70.6	69.5	74.7	58.2	81.7	39.2
2700	85	79.1	79.1	82.1	73.9	87.9	58.6	73.4	73.4	76.0	69.8	81.4	55.0
2700	90	83.1	83.1	83.9	83.5	88.3	72.4	77.9	77.9	77.9	77.9	81.8	68.5
3000	75	75.8	65.9	81.6	49.5	90.3	25.4	69.9	61.8	75.2	45.9	83.5	22.3
3000	80	78.2	76.2	82.4	64.0	89.5	44.1	72.3	71.8	76.1	60.1	82.8	40.7
3000	85	81.2	81.2	83.9	76.1	89.5	60.5	75.4	75.4	77.6	71.9	82.8	56.7
3000	90	85.1	85.1	86.0	85.9	90.0	74.5	79.8	79.8	79.8	79.8	83.4	70.4
3300	75	77.2	67.8	82.7	51.0	91.0	26.6	71.1	63.6	76.2	47.3	84.1	23.3
3300	80	79.8	78.3	83.7	65.7	90.5	45.5	73.8	73.8	77.3	61.7	83.7	41.9
3300	85	83.1	83.1	85.4	78.1	90.7	62.0	77.1	77.1	79.1	73.7	83.9	58.1
3300	90	87.8	87.8	87.8	87.8	91.5	76.2	81.5	81.5	81.5	81.5	84.7	72.0
3600	75	78.4	69.5	83.5	52.3	91.5	27.5	72.1	65.1	76.8	48.4	84.4	24.1
3600	80	81.2	80.2	84.8	67.2	91.3	46.6	75.1	75.1	78.2	63.0	84.3	42.9
3600	85	84.7	84.7	86.7	79.8	91.7	63.3	78.6	78.6	80.2	75.3	84.7	59.3
3600	90	89.3	89.3	89.3	89.3	92.7	77.7	82.9	82.9	82.9	82.9	85.8	73.4

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 18. Gross cooling capacities 8½ tons standard efficiency - three phase T/YSC102F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2720	75	94.9	77.8	102.8	57.5	113.7	27.9	89.1	74.3	96.5	54.7	107.0	25.8	83.1	70.5	90.0	51.6	100.0	23.4
2720	80	97.3	90.2	103.6	74.9	113.0	50.3	91.6	86.3	97.4	71.7	106.3	47.8	85.6	82.0	90.9	68.2	99.4	44.9
2720	85	100.6	100.0	105.3	89.7	113.1	70.0	94.9	94.9	99.1	86.0	106.5	67.1	88.8	88.8	92.6	82.1	99.5	63.8
2720	90	104.6	104.6	107.8	101.8	114.0	87.1	98.9	98.9	101.6	97.7	107.4	83.7	94.2	94.2	95.1	93.3	100.4	80.0
3060	75	97.5	80.8	105.1	60.2	115.7	30.2	91.6	77.1	98.7	57.2	108.8	27.9	85.4	73.1	92.0	53.9	101.7	25.3
3060	80	100.3	93.5	106.3	77.9	115.3	52.9	94.4	89.4	99.9	74.5	108.4	50.2	88.2	85.0	93.2	70.7	101.3	47.1
3060	85	103.8	103.6	108.2	93.0	115.7	72.9	97.9	97.9	101.9	89.1	108.8	69.8	91.7	91.7	95.2	84.9	101.7	66.3
3060	90	108.1	108.1	111.0	105.4	116.8	90.3	102.3	102.3	104.6	101.1	110.0	86.7	97.0	97.0	98.0	96.5	102.9	82.8
3400	75	99.9	83.5	107.1	62.6	117.4	32.2	93.8	79.6	100.5	59.4	110.3	29.7	87.4	75.5	93.7	55.9	103.0	26.9
3400	80	102.9	96.6	108.5	80.6	117.2	55.2	96.8	92.3	102.0	77.0	110.2	52.3	90.4	87.7	95.1	73.0	102.9	49.1
3400	85	106.7	106.7	110.8	96.0	117.9	75.6	100.6	100.6	104.3	91.9	110.9	72.2	94.3	94.3	97.4	87.6	103.6	68.5
3400	90	111.3	111.3	113.8	108.7	119.4	93.3	105.3	105.3	107.3	104.2	112.4	89.5	99.5	99.5	100.5	99.4	105.1	85.4
3740	75	101.9	86.0	108.8	64.7	118.7	33.9	95.6	81.9	102.0	61.3	111.5	31.2	89.0	77.5	95.0	57.6	104.0	28.2
3740	80	105.2	99.4	110.5	83.0	118.8	57.3	98.9	94.9	103.8	79.2	111.7	54.1	92.3	90.0	96.7	75.1	104.2	50.7
3740	85	109.3	109.3	113.0	98.7	119.8	77.9	103.0	103.0	106.3	94.4	112.6	74.4	96.5	96.5	99.3	89.9	105.1	70.5
3740	90	114.2	114.2	116.3	111.7	121.5	95.9	107.9	107.9	109.6	107.0	114.4	91.9	101.6	101.6	102.6	102.1	106.9	87.7
4080	75	103.5	88.2	110.1	66.5	119.7	35.4	97.1	83.9	103.2	62.9	112.3	32.5	90.3	79.3	96.0	59.0	104.6	29.3
4080	80	107.1	101.9	112.1	85.1	120.1	59.0	100.7	97.2	105.2	81.1	112.8	55.7	93.9	92.2	98.0	76.8	105.1	52.1
4080	85	111.5	111.5	114.9	101.1	121.4	80.0	105.1	105.1	108.0	96.7	114.0	76.2	98.4	98.4	100.8	91.9	106.4	72.2
4080	90	116.7	116.7	118.5	114.5	123.4	98.3	110.3	110.3	111.7	109.6	116.1	94.1	103.4	103.4	104.5	104.4	108.4	89.6

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2720	75	76.7	66.4	83.2	48.3	92.7	20.7	70.0	62.0	76.0	44.6	85.1	17.8
2720	80	79.2	77.5	84.1	64.4	92.1	41.8	72.5	72.5	77.0	60.3	84.5	38.4
2720	85	82.5	82.5	85.8	77.8	92.2	60.3	75.8	75.8	78.7	73.3	84.6	56.4
2720	90	88.4	88.4	88.4	88.4	93.2	76.0	81.2	81.2	81.2	81.2	85.6	71.8
3060	75	78.8	68.8	85.0	50.3	94.2	22.4	71.9	64.3	77.6	46.5	86.4	19.3
3060	80	81.6	80.3	86.2	66.7	93.8	43.8	74.8	74.8	78.9	62.5	86.0	40.2
3060	85	85.2	85.2	88.2	80.5	94.3	62.6	78.4	78.4	80.9	75.8	86.5	58.6
3060	90	91.0	91.0	91.0	91.0	95.5	78.7	83.7	83.7	83.7	83.7	87.7	74.2
3400	75	80.6	71.0	86.5	52.1	95.3	23.8	73.6	66.2	78.9	48.0	87.3	20.5
3400	80	83.7	82.8	88.0	68.8	95.2	45.6	76.7	76.7	80.5	64.4	87.3	41.8
3400	85	87.6	87.6	90.2	82.9	96.0	64.6	80.5	80.5	82.8	78.0	88.0	60.4
3400	90	93.3	93.3	93.3	93.3	97.5	81.0	85.9	85.9	85.9	85.9	89.5	76.4
3740	75	82.1	72.9	87.6	53.6	96.1	25.0	74.9	67.9	79.9	49.3	88.0	21.4
3740	80	85.5	85.0	89.4	70.7	96.3	47.0	78.2	78.2	81.7	66.0	88.2	43.0
3740	85	89.6	89.6	92.0	85.1	97.3	66.4	82.4	82.4	84.3	79.9	89.2	61.9
3740	90	95.3	95.3	95.3	95.3	99.1	83.1	87.7	87.7	87.7	87.7	91.0	78.2
4080	75	83.2	74.5	88.4	54.8	96.6	25.8	75.8	69.3	80.5	50.4	88.3	22.1
4080	80	86.9	86.9	90.5	72.2	97.1	48.2	79.5	79.5	82.6	67.3	88.8	44.0
4080	85	91.3	91.3	93.3	86.9	98.4	67.8	83.9	83.9	85.5	81.6	90.1	63.2
4080	90	97.0	97.0	97.0	97.0	100.4	84.9	89.1	89.1	89.1	89.1	92.2	79.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Performance Data

Table 19. Gross cooling capacities 10 tons standard efficiency - three phase T/YSC120F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
3200	75	110.9	92.2	120.3	70.0	133.3	37.5	104.8	88.5	113.7	67.0	126.2	35.2	98.3	84.3	106.6	63.6	118.6	32.5
3200	80	113.5	106.1	120.8	89.5	131.8	62.6	107.4	102.0	114.2	86.1	124.7	59.9	100.9	97.4	107.2	82.2	117.1	56.7
3200	85	116.9	116.9	122.2	105.8	131.1	84.5	110.8	110.8	115.6	102.0	124.0	81.3	104.4	104.4	108.6	97.7	116.5	77.8
3200	90	121.1	121.1	124.4	119.0	131.3	103.2	115.1	115.1	117.9	114.8	124.3	99.7	109.8	109.8	110.9	110.1	116.8	95.7
3600	75	113.8	96.0	122.8	73.5	135.3	40.7	107.6	92.1	116.0	70.3	128.0	38.1	100.9	87.6	108.7	66.5	120.3	35.1
3600	80	116.7	110.2	123.5	93.3	134.1	66.0	110.4	105.8	116.8	89.6	126.8	63.0	103.8	101.0	109.6	85.5	119.1	59.6
3600	85	120.3	120.3	125.2	109.9	133.7	88.2	114.2	114.2	118.5	105.8	126.5	84.8	107.5	107.5	111.3	101.2	118.8	80.9
3600	90	124.9	124.9	127.7	123.4	134.2	107.2	118.7	118.7	121.0	118.8	127.0	103.4	112.8	112.8	113.9	113.8	119.3	99.1
4000	75	116.3	99.4	124.8	76.6	137.0	43.5	109.9	95.2	117.9	73.0	129.5	40.6	103.0	90.5	110.5	69.0	121.6	37.3
4000	80	119.5	113.9	125.9	96.6	136.0	69.0	113.1	109.2	119.0	92.7	128.6	65.8	106.2	104.1	111.6	88.2	120.7	62.0
4000	85	123.4	123.4	127.9	113.5	136.0	91.5	117.1	117.1	121.0	109.1	128.5	87.8	110.3	110.3	113.7	104.3	120.7	83.7
4000	90	128.3	128.3	130.7	127.2	136.7	110.8	122.6	122.6	123.8	122.4	129.4	106.7	116.6	116.6	116.6	116.6	121.5	102.1
4400	75	118.5	102.4	126.5	79.2	138.3	45.8	111.9	97.9	119.4	75.4	130.6	42.6	104.9	92.9	111.9	71.1	122.5	39.0
4400	80	121.9	117.1	127.9	99.5	137.6	71.6	115.3	112.2	120.8	95.3	130.0	68.0	108.3	106.8	113.3	90.6	121.9	64.1
4400	85	126.2	126.2	130.2	116.7	137.8	94.3	119.7	119.7	123.1	112.0	130.2	90.3	112.7	112.7	115.6	106.9	122.2	85.9
4400	90	131.3	131.3	133.3	130.6	138.9	113.9	125.0	125.0	126.3	125.6	131.4	109.5	118.8	118.8	118.8	118.8	123.4	104.6
4800	75	120.3	104.9	127.9	81.4	139.2	47.6	113.5	100.1	120.6	77.3	131.3	44.2	106.3	94.8	112.9	72.7	123.1	40.3
4800	80	124.0	119.9	129.6	102.0	138.8	73.7	117.2	114.7	122.3	97.4	131.0	69.9	110.1	109.0	114.6	92.4	122.8	65.6
4800	85	128.5	128.5	132.1	119.4	139.3	96.7	121.9	121.9	124.9	114.4	131.6	92.4	114.7	114.7	117.2	109.0	123.4	87.7
4800	90	134.2	134.2	135.5	133.6	140.7	116.5	127.0	127.0	128.3	128.2	133.0	111.8	120.7	120.7	120.7	120.7	124.8	106.7

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
3200	75	91.3	79.7	99.1	59.7	110.5	29.3	83.9	74.7	91.1	55.3	102.0	25.7
3200	80	94.0	92.4	99.7	77.9	109.1	53.1	86.6	86.6	91.8	73.2	100.7	49.0
3200	85	97.5	97.5	101.2	93.0	108.5	73.7	90.1	90.1	93.3	87.8	100.1	69.3
3200	90	103.5	103.5	103.5	103.5	108.9	91.2	95.7	95.7	95.7	95.7	100.5	86.4
3600	75	93.7	82.8	101.1	62.4	112.0	31.6	86.1	77.5	92.9	57.7	103.4	27.7
3600	80	96.6	95.7	102.0	80.9	110.9	55.7	89.1	89.1	93.9	75.8	102.3	51.4
3600	85	100.4	100.4	103.7	96.2	110.7	76.6	92.9	92.9	95.7	90.8	102.1	71.9
3600	90	106.4	106.4	106.4	106.4	111.3	94.4	98.3	98.3	98.3	98.3	102.7	89.2
4000	75	95.7	85.3	102.6	64.6	113.2	33.6	88.0	79.7	94.3	59.7	104.4	29.4
4000	80	99.0	98.5	103.8	83.4	112.4	57.9	91.2	91.2	95.6	78.1	103.6	53.3
4000	85	103.0	103.0	105.9	99.0	112.4	79.1	95.4	95.4	97.7	93.3	103.6	74.1
4000	90	108.8	108.8	108.8	108.8	113.3	97.1	100.6	100.6	100.6	100.6	104.6	91.7
4400	75	97.4	87.5	103.8	66.4	114.0	35.0	89.4	81.6	95.4	61.2	105.0	30.5
4400	80	100.9	100.9	105.3	85.4	113.4	59.6	93.0	93.0	96.9	79.8	104.5	54.7
4400	85	105.3	105.3	107.7	101.3	113.8	81.1	97.4	97.4	99.3	95.3	104.8	75.8
4400	90	110.9	110.9	110.9	110.9	114.9	99.4	102.6	102.6	102.6	102.6	106.1	93.7
4800	75	98.6	89.1	104.7	67.7	114.4	36.0	90.6	83.0	96.1	62.3	105.2	31.3
4800	80	102.5	102.5	106.5	87.0	114.1	60.9	94.4	94.4	97.9	81.2	105.0	55.7
4800	85	107.1	107.1	109.1	103.2	114.7	82.6	99.1	99.1	100.6	96.9	105.7	77.0
4800	90	112.6	112.6	112.6	112.6	116.2	101.2	104.1	104.1	104.1	104.1	107.2	95.2

Notes:
1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

Table 20. Gross cooling capacities 3 tons high efficiency - single phase T/YHC036E1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
600	75	30.5	23.4	34.4	17.3	39.7	8.3	28.5	22.1	32.2	16.3	37.2	7.5	26.4	20.8	29.8	15.2	34.7	6.5
600	80	31.2	27.5	34.4	23.1	39.0	15.7	29.2	26.1	32.2	21.9	36.6	14.7	27.0	24.6	29.9	20.6	34.0	13.6
600	85	32.2	30.7	34.8	27.9	38.8	22.2	30.2	29.1	32.6	26.6	36.3	21.0	28.1	27.5	30.3	25.1	33.8	19.8
600	90	33.7	33.0	35.6	31.9	38.9	27.8	31.7	31.3	33.4	30.4	36.5	26.4	29.6	29.5	31.1	28.8	34.0	25.1
720	75	32.1	25.1	35.8	18.8	40.9	9.6	30.0	23.7	33.5	17.7	38.4	8.7	27.8	22.3	31.1	16.5	35.8	7.7
720	80	32.9	29.3	36.0	24.7	40.4	17.1	30.8	27.8	33.7	23.5	37.9	16.0	28.6	26.3	31.3	22.1	35.3	14.9
720	85	34.1	32.7	36.5	29.7	40.3	23.8	32.0	31.1	34.2	28.3	37.8	22.5	29.8	29.3	31.9	26.8	35.2	21.2
720	90	35.7	35.2	37.5	33.9	40.6	29.5	33.6	33.4	35.2	32.3	38.1	28.2	31.5	31.5	32.8	30.6	35.5	26.7
840	75	33.5	26.6	37.1	20.2	42.0	10.8	31.3	25.2	34.7	19.0	39.5	9.8	29.0	23.8	32.2	17.7	36.8	8.7
840	80	34.4	31.1	37.4	26.3	41.7	18.5	32.3	29.5	35.0	24.9	39.1	17.3	30.0	27.9	32.6	23.5	36.4	16.1
840	85	35.8	34.6	38.1	31.4	41.7	25.3	33.7	32.9	35.7	29.9	39.2	24.0	31.4	31.1	33.3	28.4	36.5	22.6
840	90	37.5	37.2	39.2	35.7	42.1	31.2	35.4	35.4	36.8	34.1	39.6	29.8	33.2	33.2	34.4	32.3	37.0	28.2
960	75	35.0	27.4	38.8	20.7	42.8	13.0	32.8	26.0	36.4	19.2	40.2	12.0	30.4	24.6	33.9	17.7	37.5	10.3
960	80	35.6	33.5	39.2	26.2	43.3	19.2	33.4	32.2	36.8	24.7	40.7	17.7	31.1	30.8	34.3	23.3	38.0	17.1
960	85	37.3	37.3	39.6	31.5	43.7	24.3	35.3	35.3	37.2	30.1	41.2	23.6	33.2	33.2	34.7	28.7	38.4	22.1
960	90	39.5	39.5	40.2	37.4	44.1	30.0	37.5	37.5	37.9	36.3	41.5	28.7	35.3	35.3	35.4	35.0	38.7	27.2
1080	75	36.0	29.3	39.8	21.8	43.8	13.2	33.7	28.0	37.3	20.4	41.1	11.6	31.2	26.7	34.7	19.0	38.3	10.5
1080	80	36.7	36.1	40.2	27.8	44.3	18.7	34.6	34.6	37.7	26.3	41.7	19.2	32.4	32.4	35.1	24.9	38.9	17.4
1080	85	39.0	39.0	40.7	34.0	44.8	26.2	36.9	36.9	38.2	32.6	42.1	24.9	34.7	34.7	35.6	31.4	39.2	23.3
1080	90	41.4	41.4	41.5	40.9	45.1	32.0	39.2	39.2	39.2	39.2	42.5	30.7	36.9	36.9	36.9	36.9	39.6	29.2
1200	75	36.8	31.3	40.6	22.7	44.6	13.1	34.5	30.2	38.0	21.4	41.8	12.1	31.9	28.8	35.3	19.9	38.9	10.7
1200	80	38.0	38.0	41.0	29.4	45.2	19.9	35.9	35.9	37.6	28.0	42.5	19.4	33.6	33.6	35.8	26.5	39.5	18.4
1200	85	40.4	40.4	41.6	36.5	45.6	27.7	38.3	38.3	39.1	35.3	42.8	26.2	36.0	36.0	36.4	34.2	39.9	24.6
1200	90	42.9	42.9	42.9	42.9	46.0	34.1	40.7	40.7	40.7	40.7	43.2	32.7	38.3	38.3	38.3	38.3	40.3	31.3
1320	75	37.6	33.6	41.2	23.7	45.2	13.3	35.1	32.2	38.7	21.9	42.4	12.2	32.6	30.9	35.9	20.8	39.5	10.6
1320	80	39.2	39.2	41.7	31.0	46.0	22.5	37.0	37.0	39.1	29.5	43.1	20.3	34.7	34.7	36.4	28.2	40.1	19.1
1320	85	41.8	41.8	42.4	39.2	46.3	29.0	39.5	39.5	39.9	38.0	43.5	27.4	37.1	37.1	37.2	36.5	40.5	25.7
1320	90	44.3	44.3	44.3	44.3	46.8	36.0	42.0	42.0	42.0	42.0	43.9	34.8	39.6	39.6	39.5	39.5	41.0	33.5
1440	75	38.2	35.6	41.8	24.5	45.9	13.7	35.8	34.2	39.2	23.6	42.9	12.1	33.2	32.5	36.4	21.7	39.9	10.8
1440	80	40.3	40.3	42.4	32.7	46.5	22.1	38.0	38.0	39.7	31.4	43.6	21.0	35.6	35.6	36.9	30.1	40.6	19.9
1440	85	42.9	42.9	43.3	41.8	46.9	30.2	40.6	40.6	40.7	40.1	44.0	28.9	38.1	38.1	38.1	38.1	41.0	27.4
1440	90	45.6	45.6	45.5	45.5	47.4	38.2	43.1	43.1	43.1	43.1	44.6	37.1	40.6	40.6	40.6	40.6	41.6	36.0

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Table 20. Gross cooling capacities 3 tons high efficiency - single phase T/YHC036E1 (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
600	75	24.1	19.4	27.4	14.0	32.0	5.5	21.7	17.9	24.8	12.6	29.2	4.4
600	80	24.8	23.0	27.4	19.2	31.4	12.4	22.4	21.4	24.8	17.8	28.6	11.2
600	85	25.9	25.8	27.9	23.6	31.2	18.4	23.6	23.6	25.3	22.0	28.4	17.0
600	90	28.4	28.4	28.7	27.1	31.3	23.6	25.9	25.9	26.2	25.3	28.6	22.0
720	75	25.4	20.8	28.6	15.2	33.0	6.6	23.0	19.3	25.9	13.8	30.2	5.4
720	80	26.3	24.6	28.8	20.6	32.6	13.6	23.9	22.9	26.1	19.1	29.7	12.3
720	85	27.5	27.5	29.4	25.2	32.5	19.8	25.1	25.1	26.7	23.5	29.7	18.4
720	90	30.0	30.0	30.3	28.9	32.8	25.1	27.5	27.5	27.7	27.0	30.0	23.5
840	75	26.7	22.2	29.6	16.4	34.0	7.5	24.1	20.5	26.9	14.9	31.0	6.3
840	80	27.7	26.2	30.0	22.0	33.7	14.8	25.2	24.3	27.3	20.4	30.7	13.4
840	85	29.1	29.1	30.7	26.7	33.7	21.1	26.6	26.6	28.0	24.9	30.8	19.6
840	90	31.5	31.5	31.9	30.5	34.2	26.6	28.9	28.9	29.2	28.6	31.3	24.9
960	75	28.0	23.3	31.2	16.5	34.6	8.9	25.2	21.7	27.8	15.9	31.8	7.0
960	80	28.9	28.9	31.6	21.8	35.1	15.1	26.4	25.7	28.3	21.5	31.6	14.3
960	85	30.9	30.9	32.0	27.3	35.5	20.4	27.9	27.9	29.2	26.2	31.9	20.7
960	90	33.0	33.0	33.0	33.0	35.8	25.6	30.2	30.2	30.5	30.1	32.5	26.1
1080	75	28.7	25.5	31.9	17.5	35.3	9.2	26.1	22.8	28.6	16.7	32.4	7.7
1080	80	30.1	30.1	32.3	23.4	35.9	16.2	27.4	26.9	29.2	22.5	32.4	15.1
1080	85	32.3	32.3	32.8	30.1	36.2	21.8	29.1	29.1	30.3	27.4	32.8	21.6
1080	90	34.5	34.5	34.5	34.5	36.6	27.7	31.4	31.4	31.7	31.4	33.6	27.3
1200	75	29.4	27.5	32.5	18.4	35.9	9.0	26.8	23.7	29.2	17.5	32.9	8.2
1200	80	31.2	31.2	33.0	25.1	36.5	16.5	28.3	28.0	30.0	23.4	33.0	15.8
1200	85	33.5	33.5	33.7	32.9	36.8	23.2	30.2	30.2	31.2	28.5	33.6	22.5
1200	90	35.8	35.8	35.8	35.8	37.3	29.8	32.5	32.5	32.8	32.6	34.5	28.3
1320	75	30.0	29.3	33.0	19.0	36.4	9.3	27.5	24.5	29.7	18.1	33.2	8.7
1320	80	32.2	32.2	33.5	27.0	37.0	17.3	29.1	29.0	30.6	24.2	33.5	16.4
1320	85	34.5	34.5	34.5	34.5	37.4	24.6	31.1	31.1	32.0	29.4	34.2	23.3
1320	90	36.9	36.9	36.9	36.9	37.9	32.4	33.7	33.7	33.7	33.7	35.3	29.3
1440	75	30.7	30.6	33.4	20.3	36.8	9.4	28.0	25.2	30.0	18.6	33.4	9.0
1440	80	33.0	33.0	34.0	28.9	37.4	18.3	29.8	29.8	31.2	24.9	33.9	16.9
1440	85	35.5	35.5	35.4	35.4	37.9	26.0	31.9	31.9	32.7	30.3	34.7	23.9
1440	90	37.9	37.9	37.9	37.9	38.5	34.9	34.6	34.6	34.6	34.6	36.0	30.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 21. Gross cooling capacities 3 tons high efficiency - three phase T/YHC036E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
600	75	30.5	23.1	34.4	16.9	39.8	7.7	28.2	21.7	32.0	15.8	37.1	6.9	25.9	20.3	29.4	14.6	34.3	5.9
600	80	31.1	27.1	34.4	22.6	39.1	15.1	28.9	25.6	32.0	21.4	36.4	14.0	26.6	24.0	29.5	20.0	33.7	13.0
600	85	32.2	30.3	34.8	27.5	38.8	21.5	30.0	28.7	32.4	26.0	36.2	20.4	27.7	26.9	29.9	24.6	33.4	19.1
600	90	33.6	32.6	35.6	31.4	38.9	27.1	31.5	30.8	33.2	29.9	36.3	25.8	29.2	28.9	30.7	28.2	33.6	24.4
720	75	32.0	24.9	35.9	18.6	41.0	9.2	29.7	23.5	33.3	17.4	38.3	8.2	27.3	22.0	30.7	16.1	35.4	7.2
720	80	32.8	29.1	36.0	24.4	40.5	16.7	30.6	27.5	33.5	23.1	37.8	15.6	28.2	25.9	30.9	21.7	35.0	14.4
720	85	34.1	32.5	36.5	29.4	40.4	23.3	31.8	30.8	34.0	27.9	37.7	22.1	29.4	28.9	31.5	26.4	34.9	20.7
720	90	35.6	35.0	37.4	33.6	40.6	29.1	33.4	33.1	35.0	31.9	37.9	27.7	31.1	31.1	32.5	30.2	35.2	26.2
840	75	33.5	26.6	37.1	20.1	42.2	10.5	31.1	25.1	34.5	18.8	39.3	9.4	28.6	23.5	31.8	17.4	36.4	8.3
840	80	34.4	31.0	37.4	26.1	41.8	18.1	32.1	29.3	34.9	24.7	39.0	17.0	29.6	27.6	32.2	23.2	36.1	15.7
840	85	35.8	34.5	38.1	31.3	41.8	25.0	33.5	32.7	35.6	29.7	39.0	23.6	31.0	30.8	32.9	28.0	36.2	22.2
840	90	37.5	37.2	39.2	35.6	42.2	30.9	35.2	35.2	36.7	33.9	39.5	29.4	33.7	33.7	34.1	32.0	36.6	27.9
960	75	35.0	27.4	39.0	20.8	43.0	13.1	32.6	25.9	36.4	18.7	40.3	11.7	30.1	24.4	33.6	17.6	37.3	10.3
960	80	35.6	33.5	39.4	26.2	43.5	19.2	33.3	32.2	36.8	24.7	40.7	17.8	30.8	30.6	34.0	23.1	37.8	16.2
960	85	37.3	37.3	39.8	31.6	43.9	25.2	35.2	35.2	37.2	30.1	41.2	23.5	33.0	33.0	34.4	28.7	38.2	21.8
960	90	39.6	39.6	40.3	37.5	44.4	30.1	37.5	37.5	37.9	36.3	41.5	28.7	35.1	35.1	35.2	34.9	38.6	27.2
1080	75	36.0	29.2	39.9	21.9	44.0	13.3	33.6	28.0	37.2	19.7	41.1	12.0	31.0	26.6	34.4	18.6	38.1	10.4
1080	80	36.8	36.2	40.4	27.8	44.6	18.9	34.5	34.5	37.7	26.3	41.7	19.2	32.2	32.2	34.9	24.8	38.7	17.2
1080	85	39.1	39.1	40.9	34.0	45.0	26.3	36.9	36.9	38.2	32.6	42.1	24.9	34.5	34.5	35.4	31.3	39.0	23.3
1080	90	41.5	41.5	41.7	40.9	45.4	32.2	39.2	39.2	39.2	39.2	42.5	30.8	36.8	36.8	36.7	36.7	39.4	29.1
1200	75	36.9	31.4	40.8	22.8	44.8	13.2	34.4	30.1	38.0	21.3	41.9	12.1	31.6	28.7	35.1	19.7	38.7	10.5
1200	80	38.1	38.1	41.2	29.4	45.4	21.7	35.8	35.8	3706	27.9	42.5	19.4	33.4	33.4	35.6	26.4	39.4	18.3
1200	85	40.6	40.6	41.8	36.5	45.9	27.8	38.3	38.3	39.0	35.2	42.9	26.3	35.8	35.8	36.2	34.0	39.7	24.6
1200	90	43.1	43.1	43.1	43.1	46.3	34.2	40.7	40.7	40.7	40.7	43.3	32.6	38.2	38.2	38.1	38.1	40.2	31.1
1320	75	37.7	33.7	41.4	23.6	45.5	13.2	35.0	32.2	38.6	21.9	42.5	12.3	32.4	30.9	35.7	20.8	39.3	10.6
1320	80	39.3	39.3	41.9	31.1	46.3	22.5	37.0	37.0	39.2	29.6	43.1	20.5	34.4	34.4	36.2	28.2	39.9	19.0
1320	85	41.9	41.9	42.6	39.2	46.6	29.2	39.5	39.5	39.9	38.0	43.5	27.5	36.9	36.9	37.1	36.4	40.4	26.0
1320	90	44.5	44.5	44.5	44.5	47.1	36.1	42.1	42.1	42.0	42.0	44.0	34.8	39.4	39.4	39.4	39.4	40.9	33.5
1440	75	38.3	35.6	42.0	24.6	46.1	13.8	35.7	34.2	39.2	23.6	43.0	12.2	33.0	32.4	36.1	21.7	39.7	10.8
1440	80	40.4	40.4	42.6	32.7	46.8	21.5	38.0	38.0	39.8	31.4	43.7	21.0	35.4	35.4	36.7	30.0	40.4	19.5
1440	85	43.1	43.1	43.5	41.9	47.3	30.6	40.6	40.6	40.8	40.2	44.1	28.9	37.9	37.9	38.0	37.9	40.9	27.3
1440	90	45.8	45.8	45.8	45.8	47.7	38.3	43.3	43.3	43.2	43.2	44.7	37.2	40.5	40.5	40.5	40.5	41.5	36.0

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Table 21. Gross cooling capacities 3 tons high efficiency - three phase T/YHC036E3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
600	75	23.4	18.8	26.8	13.4	31.4	4.9	20.9	17.2	24.0	12.0	28.5	3.8
600	80	24.2	22.4	26.8	18.6	30.8	11.8	21.7	20.6	24.2	17.1	27.9	10.5
600	85	25.3	25.1	27.3	23.0	30.6	17.8	22.9	22.9	24.7	21.3	27.8	16.4
600	90	27.9	27.9	28.2	26.5	30.8	22.9	25.3	25.3	25.5	24.7	28.0	21.3
720	75	24.8	20.3	28.0	14.8	32.5	6.1	22.2	18.7	25.2	13.3	29.5	4.9
720	80	25.7	24.1	28.2	20.2	32.1	13.1	23.2	22.3	25.4	18.6	29.1	11.8
720	85	27.0	27.0	28.8	24.7	32.0	19.3	24.5	24.5	26.1	23.0	29.0	17.8
720	90	29.5	29.5	29.8	28.4	32.3	24.6	26.9	26.9	27.1	26.5	29.4	23.0
840	75	26.0	21.8	29.0	16.0	33.4	7.1	23.4	20.0	26.2	14.5	30.3	5.9
840	80	27.1	25.7	29.4	21.6	33.1	14.4	24.5	23.8	26.6	19.9	30.1	12.9
840	85	28.5	28.5	30.2	26.3	33.2	20.7	25.9	25.9	27.4	24.5	30.2	19.1
840	90	31.0	31.0	31.4	30.1	33.7	26.2	28.3	28.3	28.6	28.2	30.7	24.5
960	75	27.3	23.0	30.7	16.4	34.1	8.8	24.4	21.2	27.0	15.5	31.0	6.7
960	80	28.4	28.4	31.1	21.6	34.5	13.9	25.6	25.2	27.6	21.1	30.9	13.9
960	85	30.5	30.5	31.5	27.2	35.1	20.2	27.3	27.3	28.6	25.8	31.2	20.3
960	90	32.7	32.7	32.6	32.6	35.4	25.5	29.6	29.6	29.9	29.7	31.9	25.8
1080	75	28.1	25.2	31.4	17.4	34.8	9.0	25.3	22.3	27.8	16.4	31.6	7.4
1080	80	29.7	29.7	31.8	23.2	35.4	16.0	26.7	26.4	28.5	22.1	31.7	14.8
1080	85	31.9	31.9	32.4	30.0	35.8	21.7	28.5	28.5	29.6	27.1	32.1	21.3
1080	90	34.1	34.1	34.1	34.1	36.2	27.5	30.8	30.8	31.1	31.1	32.9	27.0
1200	75	28.8	27.3	32.0	18.2	35.4	8.8	26.1	23.2	28.4	17.1	32.1	7.9
1200	80	30.8	30.8	32.5	25.0	36.0	16.4	27.6	27.5	29.3	23.0	32.3	15.5
1200	85	33.1	33.1	33.3	32.6	36.4	23.0	29.5	29.5	30.5	28.1	32.9	22.2
1200	90	35.4	35.4	35.4	35.4	36.9	29.8	32.2	32.2	32.2	32.2	33.8	28.1
1320	75	29.5	29.0	32.5	18.7	35.9	9.5	26.7	24.0	28.9	17.7	32.4	8.3
1320	80	31.8	31.8	33.0	26.8	36.5	17.2	28.4	28.4	29.9	23.8	32.8	16.1
1320	85	34.2	34.2	34.2	34.2	37.0	24.2	30.5	30.5	31.3	29.1	33.5	23.0
1320	90	36.6	36.6	36.5	36.5	37.5	32.2	33.1	33.1	33.1	33.1	34.6	29.0
1440	75	30.2	30.1	32.9	20.1	36.3	9.3	27.2	24.6	29.2	18.1	32.6	8.6
1440	80	32.6	32.6	33.5	28.8	36.9	17.9	29.0	29.0	30.4	24.4	33.1	16.5
1440	85	35.1	35.1	35.1	35.1	37.5	25.8	31.3	31.3	32.0	29.9	34.0	23.6
1440	90	37.5	37.5	37.5	37.5	38.1	34.8	33.9	33.9	33.9	33.9	35.3	29.8

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 22. Gross cooling capacities 4 tons high efficiency - single phase T/YHC048F1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	38.1	28.9	42.8	21.8	49.1	11.3	35.7	27.5	40.2	20.6	46.2	10.3	33.1	25.9	37.3	19.2	43.1	9.2
800	80	38.8	33.7	42.8	28.3	48.4	19.5	36.4	32.1	40.2	26.9	45.6	18.4	33.9	30.4	37.5	25.5	42.5	17.2
800	85	39.9	37.5	43.3	33.8	48.1	26.8	37.6	35.8	40.7	32.3	45.3	25.6	35.1	33.9	38.0	30.7	42.4	24.2
800	90	41.5	40.3	44.1	38.4	48.2	33.1	39.2	38.5	41.6	36.8	45.5	31.7	36.8	36.5	38.9	35.0	42.6	30.2
960	75	40.4	31.2	45.0	23.7	51.1	12.9	37.9	29.6	42.2	22.4	48.1	11.8	35.2	28.0	39.3	21.0	44.9	10.6
960	80	41.4	36.2	45.2	30.5	50.6	21.4	38.9	34.5	42.5	29.0	47.6	20.2	36.2	32.7	39.6	27.4	44.5	18.8
960	85	42.7	40.3	45.8	36.3	50.5	28.9	40.3	38.5	43.2	34.7	47.6	27.6	37.7	36.5	40.4	33.0	44.5	26.1
960	90	44.4	43.4	46.9	41.1	50.8	35.5	42.1	41.4	44.3	39.4	48.0	34.0	39.5	39.3	41.5	37.6	45.0	32.4
1120	75	42.5	33.2	46.9	25.4	52.8	14.2	39.9	31.6	44.0	24.0	49.7	13.1	37.1	29.8	41.0	22.5	46.4	11.8
1120	80	43.6	38.5	47.3	32.4	52.5	23.0	41.1	36.8	44.5	30.9	49.5	21.7	38.3	34.8	41.5	29.2	46.2	20.3
1120	85	45.2	42.9	48.1	38.5	52.6	30.8	42.7	41.0	45.4	36.8	49.6	29.4	40.0	38.9	42.5	35.0	46.5	27.8
1120	90	47.1	46.3	49.4	43.6	53.2	37.7	44.7	44.2	46.7	41.8	50.2	36.1	42.0	42.0	43.8	39.9	47.1	34.4
1280	75	44.3	35.1	48.5	26.9	54.2	15.4	41.6	33.4	45.6	25.4	51.0	14.1	38.7	31.5	42.4	23.8	47.7	12.7
1280	80	45.7	40.7	49.2	34.2	54.2	24.4	43.0	38.8	46.3	32.6	51.0	23.0	40.1	36.8	43.2	30.8	47.7	21.5
1280	85	47.4	45.3	50.2	40.6	54.5	32.5	44.8	43.3	47.3	38.8	51.4	31.0	42.0	41.1	44.3	36.9	48.1	29.3
1280	90	49.5	48.9	51.6	46.0	55.2	39.6	47.0	46.8	48.8	44.1	52.2	38.0	44.2	44.2	45.8	42.0	49.0	36.1
1440	75	45.9	36.8	49.9	28.2	55.4	16.4	43.1	34.9	46.8	26.6	52.1	15.0	40.0	32.9	43.6	24.9	48.6	13.5
1440	80	47.4	42.6	50.7	35.8	55.6	25.6	44.6	40.6	47.7	34.1	52.3	24.2	41.7	38.5	44.5	32.2	48.9	22.5
1440	85	49.4	47.5	52.0	42.4	56.1	34.0	46.6	45.3	49.0	40.5	52.9	32.4	43.7	43.1	45.9	38.5	49.5	30.6
1440	90	51.7	51.4	53.6	48.1	57.0	41.4	49.0	49.0	50.7	46.1	53.9	39.6	46.2	46.2	47.6	43.9	50.5	37.7
1600	75	47.2	38.2	51.0	29.3	56.4	17.1	44.2	36.3	47.8	27.6	53.0	15.6	41.1	34.2	44.5	25.8	49.4	14.0
1600	80	48.9	44.3	52.0	37.2	56.7	26.7	46.0	42.2	48.9	35.3	53.3	25.1	43.0	40.0	45.6	33.4	49.8	23.3
1600	85	51.1	49.4	53.5	44.0	57.4	35.3	48.2	47.2	50.4	42.1	54.1	33.6	45.2	44.9	47.2	40.0	50.6	31.7
1600	90	53.6	53.6	55.3	50.0	58.6	42.9	50.8	50.8	52.3	47.9	55.3	41.1	47.9	47.9	49.1	45.6	51.9	39.1
1760	75	48.2	39.4	51.9	30.2	57.0	17.7	45.2	37.4	48.6	28.4	53.5	16.1	41.9	35.2	45.1	26.5	49.8	14.4
1760	80	50.1	45.8	53.1	38.3	57.6	27.5	47.2	43.6	49.9	36.4	54.1	25.8	44.0	41.3	46.5	34.3	50.5	24.0
1760	85	52.5	51.2	54.7	45.5	58.5	36.4	49.6	48.9	51.6	43.4	55.1	34.5	46.4	46.4	48.2	41.2	51.5	32.6
1760	90	55.2	55.2	56.8	51.7	59.8	44.3	52.4	52.4	53.7	49.5	56.5	42.3	49.3	49.3	50.4	47.1	52.9	40.2
1920	75	49.0	40.5	52.4	30.9	57.4	18.0	45.8	38.3	49.1	29.0	53.8	16.3	42.5	36.1	45.5	27.0	50.0	14.5
1920	80	51.1	47.1	53.9	39.3	58.2	28.1	48.0	44.8	50.5	37.3	54.6	26.3	44.7	42.4	47.0	35.1	50.8	24.4
1920	85	53.6	52.8	55.7	46.7	59.3	37.2	50.6	50.4	52.4	44.5	55.8	35.3	47.4	47.4	49.0	42.2	52.1	33.2
1920	90	56.6	56.6	58.0	53.2	60.8	45.4	53.6	53.6	54.7	50.9	57.4	43.4	50.5	50.5	51.3	48.4	53.7	41.2

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Table 22. Gross cooling capacities 4 tons high efficiency - single phase T/YHC048F1 (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	30.3	24.2	34.3	17.8	39.9	8.0	27.3	22.3	31.1	16.1	36.4	6.6
800	80	31.2	28.5	34.5	23.8	39.3	15.8	28.2	26.5	31.3	22.1	35.9	14.3
800	85	32.5	31.9	35.1	29.0	39.2	22.7	29.6	29.6	32.0	27.1	35.9	21.0
800	90	34.2	34.2	36.1	33.1	39.5	28.6	32.7	32.7	33.0	31.1	36.2	26.8
960	75	32.3	26.1	36.2	19.4	41.5	9.3	29.2	24.2	32.9	17.6	38.0	7.8
960	80	33.4	30.7	36.6	25.7	41.2	17.3	30.4	28.6	33.3	23.9	37.7	15.7
960	85	34.9	34.4	37.3	31.1	41.3	24.5	31.9	31.9	34.1	29.1	37.8	22.7
960	90	36.8	36.8	38.5	35.6	41.8	30.7	35.0	35.0	35.4	33.4	38.4	28.8
1120	75	34.1	27.9	37.8	20.8	42.9	10.3	30.9	25.8	34.3	19.0	39.3	8.7
1120	80	35.4	32.8	38.3	27.4	42.8	18.7	32.3	30.6	35.0	25.4	39.2	16.9
1120	85	37.1	36.7	39.3	33.1	43.1	26.1	34.0	34.0	36.0	31.0	39.5	24.2
1120	90	39.2	39.2	40.7	37.8	43.8	32.5	37.1	37.1	37.5	35.5	40.3	30.5
1280	75	35.6	29.5	39.1	22.0	44.1	11.2	32.3	27.3	35.6	20.1	40.3	9.5
1280	80	37.1	34.6	39.9	28.9	44.2	19.8	33.9	32.3	36.4	26.8	40.5	18.0
1280	85	39.0	38.8	41.1	34.8	44.6	27.5	35.8	35.8	37.6	32.6	41.0	25.5
1280	90	41.3	41.3	42.7	39.8	45.5	34.2	38.9	38.9	39.3	37.5	41.9	32.1
1440	75	36.8	30.8	40.2	23.0	45.0	11.8	33.5	28.5	36.5	21.0	41.1	10.1
1440	80	38.5	36.2	41.1	30.2	45.2	20.7	35.2	33.8	37.6	28.0	41.4	18.8
1440	85	40.6	40.6	42.5	36.4	45.9	28.7	37.3	37.3	39.0	34.1	42.2	26.6
1440	90	43.1	43.1	44.3	41.6	47.0	35.7	40.4	40.4	40.9	39.2	43.3	33.5
1600	75	37.8	32.0	40.9	23.8	45.6	12.3	34.3	29.6	37.2	21.7	41.6	10.4
1600	80	39.7	37.6	42.1	31.2	46.1	21.5	36.3	35.1	38.5	29.0	42.1	19.4
1600	85	42.0	42.0	43.7	37.7	47.0	29.7	38.6	38.6	40.1	35.3	43.1	27.5
1600	90	44.7	44.7	45.7	43.2	48.2	36.9	41.7	41.7	42.2	40.7	44.4	34.6
1760	75	38.5	32.9	41.5	24.4	45.9	12.6	34.9	30.4	37.6	22.2	41.9	10.6
1760	80	40.6	38.8	42.9	32.1	46.6	22.0	37.1	36.2	39.1	29.7	42.6	19.8
1760	85	43.1	43.1	44.7	38.8	47.7	30.4	39.6	39.6	40.9	36.3	43.7	28.2
1760	90	46.0	46.0	46.9	44.6	49.2	38.0	42.8	42.8	43.2	42.0	45.3	35.6
1920	75	39.0	33.6	41.7	24.8	46.0	12.6	35.3	31.1	37.8	22.5	41.8	10.5
1920	80	41.3	39.9	43.3	32.8	46.9	22.3	37.6	37.2	39.4	30.3	42.8	20.1
1920	85	44.0	44.0	45.3	39.8	48.2	31.0	40.4	40.4	41.5	37.2	44.1	28.7
1920	90	47.3	47.3	47.7	45.8	49.9	38.8	43.5	43.5	44.0	43.1	45.9	36.3

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 23. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	39.5	31.1	44.6	23.3	51.6	11.5	36.8	29.6	41.6	22.2	48.3	10.8	33.9	28.0	38.5	20.9	44.9	9.9
800	80	40.3	36.2	44.5	30.6	50.6	21.0	37.6	34.5	41.6	29.3	47.4	20.0	34.8	32.7	38.5	27.8	44.0	18.9
800	85	41.6	40.1	45.0	36.7	50.2	29.2	39.0	38.2	42.1	35.1	47.0	28.0	36.2	36.2	39.0	33.4	43.6	26.7
800	90	43.5	42.9	45.9	41.6	50.2	36.3	40.9	40.8	43.0	39.8	47.0	34.9	38.1	38.1	39.9	37.9	43.7	33.3
960	75	41.5	33.1	46.4	25.1	53.2	13.0	38.7	31.5	43.4	23.8	49.9	12.1	35.7	29.8	40.1	22.5	46.3	11.1
960	80	42.5	38.5	46.6	32.6	52.5	22.6	39.7	36.7	43.5	31.1	49.1	21.6	36.8	34.7	40.3	29.5	45.6	20.3
960	85	44.0	42.6	47.2	38.9	52.2	31.1	41.3	40.6	44.2	37.2	48.9	29.8	38.4	38.4	41.0	35.4	45.4	28.4
960	90	46.1	45.6	48.3	44.0	52.5	38.4	43.4	43.4	45.3	42.2	49.2	36.9	40.5	40.5	42.2	40.1	45.7	35.3
1120	75	43.3	35.0	48.1	26.7	54.7	14.3	40.4	33.3	44.9	25.3	51.3	13.3	37.4	31.5	41.6	23.8	47.6	12.2
1120	80	44.5	40.6	48.4	34.4	54.2	24.2	41.7	38.7	45.3	32.9	50.7	23.0	38.7	36.6	42.0	31.1	47.1	21.7
1120	85	46.3	45.0	49.2	41.0	54.1	32.9	43.4	42.9	46.1	39.2	50.7	31.5	40.4	40.4	42.8	37.3	47.1	29.9
1120	90	48.5	48.2	50.6	46.3	54.5	40.4	45.7	45.7	47.5	44.4	51.1	38.8	43.8	43.8	44.2	42.2	47.6	37.1
1280	75	45.4	36.1	50.5	26.4	55.8	16.0	42.5	34.5	47.2	24.7	52.3	15.2	39.3	32.9	43.8	22.9	48.7	13.1
1280	80	46.2	44.2	51.0	34.1	56.4	24.0	43.2	42.5	47.7	32.3	53.0	22.7	40.1	40.1	44.3	30.8	49.2	20.7
1280	85	48.3	48.3	51.5	41.7	56.9	31.7	45.7	45.7	48.2	40.0	53.4	30.0	42.8	42.8	44.8	38.4	49.7	28.3
1280	90	51.2	51.2	52.2	49.6	57.3	39.1	48.5	48.5	49.0	48.0	53.8	37.5	45.7	45.7	45.7	45.7	50.1	35.8
1440	75	46.7	38.9	51.7	27.7	57.1	16.8	43.6	37.3	48.4	26.5	53.5	15.0	40.4	35.7	44.9	24.2	49.7	13.3
1440	80	47.6	47.3	52.3	36.3	57.8	25.6	44.7	44.7	48.9	34.6	54.1	23.3	41.8	41.8	45.4	33.0	50.3	21.3
1440	85	50.5	50.5	52.9	45.0	58.3	33.4	47.7	47.7	49.5	43.3	54.6	31.9	44.8	44.8	46.0	41.8	50.8	30.3
1440	90	53.6	53.6	53.8	53.5	58.7	42.0	50.8	50.8	50.7	50.7	55.0	40.2	47.7	47.7	47.7	47.7	51.2	38.7
1600	75	47.8	41.6	52.8	29.5	58.2	16.6	44.6	40.0	49.4	27.3	54.5	15.0	41.3	38.3	45.8	25.9	50.6	13.4
1600	80	49.2	49.2	53.3	38.6	58.8	25.3	46.4	46.4	49.9	37.0	55.2	24.3	43.4	43.4	46.3	35.5	51.2	23.6
1600	85	52.4	52.4	54.0	48.2	59.4	35.5	49.5	49.5	50.6	46.7	55.7	33.8	46.4	46.4	47.1	45.3	51.7	32.3
1600	90	55.7	55.7	55.6	55.6	59.9	44.8	52.7	52.7	52.6	52.6	56.1	43.2	49.5	49.5	49.4	49.4	52.2	41.7
1760	75	48.8	44.2	53.7	30.6	59.2	16.8	45.5	42.6	50.2	28.8	55.4	15.2	42.1	40.8	46.5	27.3	51.4	13.6
1760	80	50.8	50.8	54.3	41.0	59.8	27.3	47.9	47.9	50.8	39.3	56.0	25.6	44.7	44.7	47.0	37.7	52.0	24.8
1760	85	54.1	54.1	55.1	51.6	60.3	37.5	51.1	51.1	51.7	50.1	56.5	35.9	47.9	47.9	48.0	47.8	52.5	34.3
1760	90	57.5	57.5	57.4	57.4	60.9	47.9	54.3	54.3	54.2	54.2	57.1	46.3	51.1	51.1	51.1	51.1	53.0	44.7
1920	75	49.6	46.9	54.5	31.8	60.0	16.9	46.3	45.0	50.9	30.2	56.1	15.5	42.9	42.6	47.1	28.6	52.0	13.7
1920	80	52.2	52.2	55.1	43.2	60.6	27.5	49.2	49.2	51.5	41.6	56.8	26.8	46.0	46.0	47.7	40.1	52.6	25.4
1920	85	55.6	55.6	56.1	54.7	61.2	39.5	52.5	52.5	52.7	52.5	57.2	37.9	49.2	49.2	49.2	49.2	53.1	36.3
1920	90	59.1	59.1	59.0	59.0	61.8	50.7	55.9	55.9	55.8	55.8	57.9	49.3	52.5	52.5	52.4	52.4	53.8	47.8

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Table 23. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048E3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	30.9	26.2	35.2	19.5	41.3	8.8	27.7	24.3	31.6	17.9	37.5	7.6
800	80	31.8	30.7	35.2	26.1	40.4	17.6	28.6	28.5	31.7	24.3	36.6	16.2
800	85	33.2	33.2	35.7	31.6	40.0	25.2	30.0	30.0	32.2	29.6	36.3	23.6
800	90	36.3	36.3	36.7	35.8	40.1	31.6	33.3	33.3	33.3	33.3	36.4	29.8
960	75	32.6	27.9	36.7	20.9	42.6	10.0	29.3	25.8	33.1	19.2	38.7	8.6
960	80	33.7	32.6	36.9	27.8	41.9	19.0	30.4	30.3	33.3	25.9	38.1	17.4
960	85	35.3	35.3	37.6	33.5	41.7	26.8	32.0	32.0	34.0	31.3	37.9	25.0
960	90	38.4	38.4	38.8	38.0	42.1	33.4	35.3	35.3	35.3	35.3	38.2	31.5
1120	75	34.2	29.5	38.1	22.2	43.8	10.9	30.8	27.3	34.4	20.4	39.9	9.5
1120	80	35.5	34.4	38.5	29.3	43.3	20.2	32.1	32.0	34.8	27.3	39.4	18.5
1120	85	37.2	37.2	39.4	35.2	43.3	28.2	33.9	33.9	35.7	33.0	39.4	26.4
1120	90	40.3	40.3	40.8	39.9	43.8	35.1	37.1	37.1	37.1	37.1	39.9	33.0
1280	75	35.9	31.2	40.1	21.3	44.7	11.5	32.1	28.6	35.5	21.4	40.8	10.2
1280	80	37.2	37.2	40.6	29.0	45.3	19.2	33.6	33.6	36.1	28.5	40.5	19.5
1280	85	39.8	39.8	41.1	36.7	45.7	26.7	35.6	35.6	37.2	34.5	40.7	27.6
1280	90	42.5	42.5	42.5	42.5	46.0	34.1	38.8	38.8	38.8	38.8	41.4	34.5
1440	75	36.9	34.0	41.1	22.7	45.7	11.6	33.2	29.8	36.5	22.3	41.6	10.8
1440	80	38.7	38.7	41.6	31.3	46.2	19.7	34.9	34.9	37.3	29.7	41.5	20.3
1440	85	41.6	41.6	42.2	40.2	46.7	28.7	37.1	37.1	38.5	35.8	41.9	28.7
1440	90	44.4	44.4	44.3	44.3	47.0	37.1	40.3	40.3	40.3	40.3	42.8	35.8
1600	75	37.7	36.6	41.8	24.1	46.4	11.8	34.2	30.9	37.2	23.1	42.2	11.3
1600	80	40.2	40.2	42.4	33.7	47.0	21.8	36.0	36.0	38.2	30.7	42.3	21.0
1600	85	43.1	43.1	43.3	43.0	47.5	30.7	38.4	38.4	39.7	37.1	42.9	29.6
1600	90	46.0	46.0	46.0	46.0	47.9	40.0	41.7	41.7	41.7	41.7	44.0	37.0
1760	75	38.5	38.4	42.5	25.6	47.1	12.0	35.0	31.8	37.9	23.7	42.6	11.6
1760	80	41.4	41.4	43.1	36.1	47.7	22.2	37.0	37.0	39.0	31.5	42.9	21.6
1760	85	44.4	44.4	44.4	44.4	48.1	32.7	39.6	39.6	40.7	38.2	43.7	30.4
1760	90	47.4	47.4	47.4	47.4	48.6	43.2	42.9	42.9	42.9	42.9	45.0	38.0
1920	75	39.3	39.3	43.0	26.9	47.7	12.5	35.6	32.6	38.3	24.2	42.9	11.8
1920	80	42.5	42.5	43.7	38.4	48.2	23.5	37.9	37.9	39.7	32.3	43.4	22.0
1920	85	45.6	45.6	45.5	45.5	48.7	34.7	40.6	40.6	41.6	39.1	44.4	31.1
1920	90	48.7	48.7	48.6	48.6	49.4	46.5	43.9	43.9	43.9	43.9	45.8	38.9

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 24. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	38.6	28.5	43.5	21.3	50.0	10.6	36.1	27.0	40.8	20.0	47.1	9.7	33.5	25.3	37.9	18.6	43.9	8.5
800	80	39.3	33.3	43.5	27.9	49.3	19.0	36.9	31.6	40.9	26.5	46.4	17.9	34.3	29.9	38.0	24.9	43.3	16.6
800	85	40.5	37.2	44.0	33.5	49.0	26.4	38.2	35.4	41.4	32.0	46.1	25.1	35.6	33.5	38.6	30.3	43.1	23.7
800	90	42.1	40.1	44.8	38.2	49.1	32.8	39.8	38.2	42.3	36.5	46.3	31.4	37.3	36.1	39.6	34.7	43.4	29.8
960	75	41.0	30.8	45.8	23.3	52.1	12.2	38.4	29.2	42.9	21.9	49.0	11.2	35.7	27.5	39.9	20.4	45.8	10.0
960	80	42.0	35.9	46.0	30.1	51.6	20.9	39.5	34.2	43.2	28.6	48.6	19.7	36.8	32.3	40.3	27.0	45.4	18.3
960	85	43.4	40.1	46.6	36.0	51.5	28.5	40.9	38.2	43.9	34.4	48.5	27.2	38.3	36.2	41.0	32.7	45.4	25.7
960	90	45.2	43.3	47.7	41.0	51.8	35.2	42.8	41.3	45.0	39.2	48.9	33.7	40.2	39.1	42.2	37.3	45.8	32.1
1120	75	43.2	32.9	47.7	25.0	53.9	13.6	40.5	31.3	44.8	23.6	50.7	12.5	37.6	29.4	41.7	22.0	47.4	11.2
1120	80	44.4	38.3	48.2	32.1	53.6	22.5	41.7	36.5	45.3	30.6	50.5	21.2	38.9	34.5	42.3	28.9	47.2	19.8
1120	85	46.0	42.8	49.0	38.3	53.7	30.5	43.4	40.8	46.2	36.6	50.6	29.0	40.6	38.7	43.2	34.8	47.4	27.4
1120	90	48.0	46.2	50.3	43.6	54.2	37.5	45.5	44.1	47.6	41.7	51.2	35.9	42.8	41.9	44.6	39.8	48.0	34.2
1280	75	45.1	34.8	49.5	26.5	55.4	14.8	42.3	33.1	46.4	25.0	52.1	13.5	39.3	31.1	43.2	23.4	48.7	12.1
1280	80	46.5	40.5	50.1	34.0	55.3	24.0	43.7	38.6	47.1	32.3	52.1	22.6	40.8	36.5	44.0	30.5	48.7	21.0
1280	85	48.3	45.2	51.2	40.4	55.6	32.2	45.6	43.2	48.2	38.6	52.5	30.7	42.7	41.0	45.1	36.7	49.1	29.0
1280	90	50.5	49.0	52.6	45.9	56.4	39.5	47.9	46.8	49.8	44.0	53.3	37.8	45.1	44.5	46.7	41.9	50.0	36.0
1440	75	46.7	36.5	50.9	27.9	56.7	15.7	43.8	34.7	47.8	26.2	53.3	14.4	40.7	32.6	44.4	24.5	49.7	12.9
1440	80	48.3	42.5	51.7	35.5	56.8	25.2	45.5	40.5	48.7	33.8	53.5	23.7	42.4	38.3	45.4	31.9	49.9	22.1
1440	85	50.3	47.5	53.0	42.3	57.3	33.7	47.5	45.3	50.0	40.4	54.0	32.1	44.6	43.0	46.8	38.4	50.6	30.3
1440	90	52.7	51.5	54.7	48.1	58.3	41.2	50.0	49.2	51.7	46.1	55.1	39.5	47.1	46.8	48.6	43.9	51.7	37.6
1600	75	48.1	38.0	52.1	28.9	57.7	16.4	45.0	36.0	48.8	27.2	54.2	15.0	41.9	33.9	45.4	25.4	50.5	13.4
1600	80	49.9	44.2	53.1	36.9	58.0	26.2	46.9	42.1	49.9	35.1	54.5	24.6	43.8	39.9	46.6	33.1	50.9	22.9
1600	85	52.1	49.5	54.6	43.9	58.7	34.9	49.2	47.2	51.5	42.0	55.3	33.2	46.1	44.9	48.2	39.8	51.8	31.4
1600	90	54.7	53.8	56.5	50.0	59.9	42.8	51.9	51.4	53.4	47.9	56.6	40.9	48.9	48.9	50.2	45.6	53.1	38.9
1760	75	49.1	39.2	53.0	29.8	58.4	16.9	46.0	37.1	49.6	28.0	54.8	15.4	42.7	35.0	46.1	26.1	51.0	13.7
1760	80	51.1	45.7	54.2	38.0	58.9	26.9	48.1	43.5	50.9	36.1	55.4	25.3	44.8	41.2	47.4	34.0	51.6	23.5
1760	85	53.6	51.2	55.9	45.3	59.8	36.0	50.6	48.9	52.7	43.3	56.4	34.2	47.4	46.5	49.2	41.1	52.7	32.2
1760	90	56.4	55.8	58.0	51.7	61.2	44.1	53.5	53.4	54.8	49.5	57.8	42.2	50.4	50.4	51.5	47.1	54.2	40.1
1920	75	49.9	40.2	53.6	30.4	58.8	17.2	46.7	38.1	50.1	28.5	55.1	15.6	43.3	35.8	46.5	26.5	51.2	13.8
1920	80	52.2	47.0	55.1	39.0	59.5	27.5	49.0	44.7	51.6	36.9	55.9	25.7	45.6	42.3	48.1	34.8	52.1	23.8
1920	85	54.8	52.8	57.0	46.5	60.7	36.8	51.7	50.4	53.6	44.4	57.1	34.9	48.4	47.8	50.1	42.1	53.3	32.9
1920	90	57.9	57.7	59.3	53.2	62.3	45.2	54.8	54.8	56.0	50.9	58.7	43.2	51.6	51.6	52.5	48.4	55.0	41.0

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Table 24. Gross cooling capacities 4 tons high efficiency - three phase T/YHC048F3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
800	75	30.6	23.5	34.8	17.1	40.6	7.2	27.6	21.6	31.6	15.4	37.1	5.8
800	80	31.6	27.9	35.0	23.3	40.1	15.2	28.6	25.9	31.8	21.5	36.6	13.6
800	85	32.9	31.4	35.6	28.5	39.9	22.1	30.0	29.2	32.5	26.5	36.5	20.4
800	90	34.7	33.9	36.7	32.8	40.2	28.2	31.8	31.6	33.6	30.7	36.9	26.3
960	75	32.8	25.6	36.8	18.8	42.4	8.6	29.6	23.6	33.4	17.0	38.8	7.1
960	80	33.9	30.3	37.2	25.3	42.0	16.8	30.8	28.1	33.9	23.4	38.5	15.1
960	85	35.4	34.0	38.0	30.8	42.1	24.0	32.4	31.7	34.7	28.7	38.6	22.3
960	90	37.4	36.8	39.2	35.3	42.6	30.3	34.5	34.4	36.0	33.1	39.2	28.4
1120	75	34.6	27.4	38.4	20.3	43.8	9.7	31.4	25.3	35.0	18.4	40.1	8.1
1120	80	35.9	32.4	39.0	27.0	43.7	18.2	32.8	30.2	35.6	25.0	40.0	16.4
1120	85	37.7	36.4	40.1	32.8	44.0	25.7	34.6	34.1	36.7	30.7	40.4	23.8
1120	90	39.9	39.5	41.5	37.6	44.7	32.3	36.8	36.8	38.2	35.4	41.2	30.3
1280	75	36.2	29.1	39.8	21.6	45.0	10.6	32.8	26.9	36.2	19.6	41.2	8.9
1280	80	37.7	34.3	40.6	28.6	45.1	19.4	34.4	32.0	37.1	26.5	41.4	17.5
1280	85	39.7	38.6	41.9	34.6	45.6	27.2	36.5	36.1	38.4	32.4	41.9	25.2
1280	90	42.1	42.0	43.5	39.7	46.5	34.0	38.9	38.9	40.1	37.4	42.9	31.9
1440	75	37.5	30.5	40.9	22.6	46.0	11.3	34.0	28.2	37.2	20.5	42.0	9.5
1440	80	39.2	36.0	41.9	29.9	46.3	20.3	35.8	33.6	38.3	27.7	42.4	18.4
1440	85	41.4	40.6	43.4	36.2	47.0	28.4	38.1	38.0	39.8	33.9	43.1	26.3
1440	90	44.0	44.0	45.3	41.6	48.1	35.5	40.7	40.7	41.7	39.1	44.3	33.3
1600	75	38.5	31.7	41.8	23.4	46.6	11.7	34.9	29.3	38.0	21.3	42.6	9.8
1600	80	40.5	37.5	43.0	31.0	47.1	21.0	37.0	34.9	39.3	28.7	43.1	19.0
1600	85	42.9	42.3	44.7	37.6	48.0	29.4	39.4	39.4	41.0	35.2	44.1	27.2
1600	90	45.7	45.7	46.7	43.2	49.4	36.8	42.3	42.3	43.1	40.7	45.5	34.5
1760	75	39.2	32.6	42.3	24.0	47.0	11.9	35.6	30.1	38.4	21.8	42.9	9.9
1760	80	41.4	38.7	43.8	31.8	47.7	21.5	37.8	36.1	39.9	29.5	43.6	19.4
1760	85	44.0	43.8	45.6	38.7	48.8	30.1	40.5	40.5	41.9	36.2	44.8	27.9
1760	90	47.0	47.0	47.9	44.7	50.4	37.8	43.6	43.6	44.2	42.0	46.4	35.5
1920	75	39.7	33.3	42.6	24.3	47.1	11.9	36.0	30.8	38.6	22.0	42.9	9.8
1920	80	42.1	39.7	44.3	32.5	48.0	21.8	38.4	37.0	40.3	30.0	43.8	19.6
1920	85	44.9	44.9	46.4	39.6	49.4	30.7	41.3	41.3	42.5	37.0	45.2	28.4
1920	90	48.2	48.2	48.9	45.8	51.1	38.7	44.6	44.6	45.0	43.1	47.0	36.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 25. Gross cooling capacities 5 tons high efficiency - single phase T/YHC060F1

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	48.6	37.7	54.4	28.8	62.3	15.7	45.8	36.1	51.3	27.5	58.9	14.7	42.7	34.3	47.9	26.1	55.2	13.6
1000	80	49.3	43.5	54.2	36.8	61.2	25.9	46.6	41.7	51.3	35.4	58.0	24.8	43.7	39.8	48.0	33.9	54.4	23.6
1000	85	50.5	48.0	54.5	43.6	60.6	34.9	48.0	46.1	51.7	42.1	57.5	33.7	45.1	44.1	48.6	40.4	54.1	32.3
1000	90	52.1	51.2	55.2	49.1	60.4	42.6	49.7	49.3	52.5	47.4	57.4	41.3	47.0	47.0	49.6	45.6	54.1	39.8
1200	75	51.2	40.5	56.8	31.3	64.4	17.8	48.3	38.8	53.6	29.9	61.0	16.7	45.1	36.9	50.1	28.3	57.2	15.4
1200	80	52.2	46.6	56.9	39.6	63.6	28.3	49.4	44.7	53.8	38.1	60.3	27.1	46.4	42.7	50.5	36.4	56.6	25.7
1200	85	53.6	51.4	57.4	46.6	63.2	37.6	51.0	49.4	54.5	45.0	60.0	36.3	48.1	47.3	51.3	43.2	56.5	34.8
1200	90	55.4	55.0	58.3	52.4	63.2	45.6	53.0	52.9	55.5	50.6	60.2	44.1	50.2	50.2	52.5	48.7	56.8	42.5
1400	75	53.5	43.0	58.9	33.4	66.3	19.6	50.5	41.2	55.6	31.9	62.7	18.4	47.3	39.2	52.0	30.2	58.9	17.0
1400	80	54.7	49.4	59.2	42.1	65.7	30.4	51.9	47.5	56.1	40.4	62.3	29.1	48.7	45.3	52.6	38.6	58.5	27.6
1400	85	56.4	54.6	60.0	49.4	65.5	40.0	53.7	52.5	56.9	47.6	62.2	38.5	50.7	50.2	53.7	45.7	58.7	36.9
1400	90	58.5	58.4	61.1	55.5	65.8	48.3	55.9	55.9	58.3	53.6	62.7	46.7	53.1	53.1	55.1	51.5	59.2	45.0
1600	75	55.6	45.3	60.7	35.3	67.9	21.1	52.5	43.4	57.3	33.7	64.2	19.8	49.1	41.2	53.6	31.9	60.2	18.3
1600	80	57.0	52.0	61.2	44.3	67.5	32.2	54.1	49.9	58.0	42.5	64.0	30.8	50.8	47.7	54.5	40.6	60.2	29.2
1600	85	58.9	57.4	62.2	51.9	67.6	42.1	56.1	55.2	59.1	50.0	64.2	40.5	53.0	52.8	55.7	48.0	60.5	38.8
1600	90	61.2	61.2	63.7	58.3	68.1	50.7	58.6	58.6	60.7	56.3	64.8	49.0	55.6	55.6	57.4	54.1	61.3	47.2
1800	75	57.3	47.3	62.2	37.0	69.1	22.3	54.1	45.2	58.7	35.2	65.4	20.9	50.6	43.0	55.0	33.3	61.3	19.3
1800	80	59.0	54.3	63.0	46.2	69.0	33.8	55.9	52.1	59.6	44.3	65.4	32.2	52.6	49.7	56.0	42.2	61.5	30.5
1800	85	61.1	60.0	64.2	54.1	69.3	44.0	58.2	57.7	61.0	52.1	65.8	42.3	55.0	55.0	57.5	50.0	62.1	40.4
1800	90	63.7	63.7	65.9	60.8	70.1	52.9	60.9	60.9	62.8	58.7	66.7	51.1	57.9	57.9	59.5	56.4	63.1	49.1
2000	75	58.7	49.0	63.4	38.3	70.1	23.3	55.5	46.8	59.8	36.4	66.2	21.8	51.9	44.5	56.0	34.4	62.1	20.0
2000	80	60.7	56.3	64.4	47.8	70.2	35.1	57.5	54.0	61.0	45.8	66.5	33.4	54.1	51.5	57.3	43.7	62.5	31.5
2000	85	63.1	62.4	65.9	56.1	70.8	45.5	60.0	59.9	62.6	54.0	67.2	43.7	56.8	56.8	59.0	51.7	63.3	41.8
2000	90	65.9	65.9	67.8	63.1	71.8	54.8	63.0	63.0	64.7	60.8	68.3	52.8	59.9	59.9	61.2	58.4	64.6	50.7
2200	75	59.9	50.5	64.3	39.4	70.8	24.0	56.5	48.2	60.6	37.4	66.8	22.3	52.9	45.7	56.7	35.2	62.6	20.5
2200	80	62.1	58.1	65.6	49.2	71.2	36.1	58.8	55.6	62.1	47.1	67.3	34.3	55.3	53.0	58.3	44.8	63.2	32.3
2200	85	64.7	64.4	67.3	57.8	72.0	46.8	61.6	61.6	63.9	55.5	68.3	44.9	58.2	58.2	60.2	53.1	64.3	42.8
2200	90	67.7	67.7	69.4	65.1	73.2	56.4	64.8	64.8	66.2	62.7	69.7	54.3	61.5	61.5	62.7	60.1	65.8	52.1
2400	75	60.7	51.7	64.9	40.2	71.2	24.4	57.3	49.2	61.2	38.1	67.1	22.6	53.5	46.6	57.1	35.8	62.8	20.7
2400	80	63.2	59.5	66.4	50.3	71.8	36.8	59.8	57.0	62.8	48.1	67.9	34.9	56.2	54.3	58.9	45.7	63.7	32.8
2400	85	66.0	66.0	68.4	59.2	72.8	47.9	62.8	62.8	64.9	56.8	69.0	45.8	59.4	59.4	61.2	54.3	65.0	43.6
2400	90	69.3	69.3	70.8	66.8	74.3	57.7	66.3	66.3	67.4	64.3	70.7	55.5	62.9	62.9	63.8	61.6	66.8	53.2

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Table 25. Gross cooling capacities 5 tons high efficiency - single phase T/YHC060F1 (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	39.3	32.4	44.3	24.5	51.3	12.3	35.7	30.3	40.3	22.7	47.0	10.8
1000	80	40.5	37.8	44.5	32.1	50.6	22.2	37.0	35.6	40.7	30.2	46.5	20.6
1000	85	42.1	41.9	45.2	38.5	50.4	30.8	38.7	38.7	41.6	36.4	46.4	29.0
1000	90	44.1	44.1	46.3	43.6	50.6	38.1	42.4	42.4	42.8	41.4	46.8	36.3
1200	75	41.7	34.8	46.4	26.6	53.1	14.0	37.9	32.6	42.3	24.7	48.8	12.4
1200	80	43.1	40.5	46.9	34.5	52.7	24.2	39.5	38.2	43.0	32.5	48.5	22.5
1200	85	44.9	44.9	47.8	41.2	52.7	33.1	41.4	41.4	44.0	39.0	48.7	31.2
1200	90	47.2	47.2	49.2	46.6	53.2	40.7	45.1	45.1	45.5	44.3	49.3	38.8
1400	75	43.7	37.0	48.2	28.4	54.7	15.5	39.9	34.7	44.1	26.4	50.3	13.8
1400	80	45.3	43.0	48.9	36.6	54.5	25.9	41.6	40.6	44.9	34.5	50.3	24.1
1400	85	47.4	47.4	50.1	43.6	54.8	35.1	43.9	43.9	46.2	41.3	50.7	33.2
1400	90	49.9	49.9	51.7	49.3	55.5	43.1	47.5	47.5	48.0	46.9	51.5	41.0
1600	75	45.4	38.9	49.7	29.9	56.0	16.6	41.5	36.5	45.5	27.8	51.5	14.8
1600	80	47.3	45.3	50.7	38.5	56.1	27.4	43.5	42.7	46.6	36.2	51.7	25.4
1600	85	49.6	49.6	52.1	45.7	56.6	36.9	46.0	46.0	48.1	43.3	52.3	34.8
1600	90	52.4	52.4	53.9	51.7	57.5	45.1	49.6	49.6	50.1	49.2	53.4	42.9
1800	75	46.9	40.6	50.9	31.2	57.0	17.5	42.9	38.0	46.6	28.9	52.4	15.6
1800	80	49.0	47.2	52.1	40.0	57.3	28.6	45.1	44.5	48.0	37.6	52.8	26.5
1800	85	51.6	51.6	53.8	47.6	58.0	38.4	47.8	47.8	49.8	45.1	53.7	36.2
1800	90	55.3	55.3	55.9	53.9	59.2	46.9	51.5	51.5	52.0	51.3	55.0	44.6
2000	75	48.1	42.0	51.8	32.2	57.7	18.1	43.9	39.3	47.4	29.8	53.0	16.1
2000	80	50.4	48.9	53.3	41.3	58.2	29.5	46.4	46.0	49.0	38.8	53.7	27.3
2000	85	53.2	53.2	55.2	49.2	59.2	39.6	49.4	49.4	51.1	46.6	54.8	37.3
2000	90	56.9	56.9	57.5	55.8	60.6	48.4	53.0	53.0	53.5	53.1	56.3	46.0
2200	75	48.9	43.0	52.5	32.9	58.1	18.5	44.7	40.2	48.0	30.4	53.3	16.3
2200	80	51.5	50.3	54.2	42.3	58.9	30.1	47.5	47.3	49.8	39.7	54.2	27.8
2200	85	54.6	54.6	56.3	50.5	60.1	40.6	50.6	50.6	52.1	47.8	55.6	38.1
2200	90	58.3	58.3	58.9	57.4	61.7	49.7	54.2	54.2	54.8	54.6	57.4	47.1
2400	75	49.5	43.9	52.8	33.3	58.2	18.5	45.2	40.9	48.2	30.7	53.3	16.2
2400	80	52.3	51.4	54.7	43.1	59.2	30.5	48.2	48.2	50.3	40.3	54.5	28.1
2400	85	55.6	55.6	57.1	51.6	60.7	41.2	51.6	51.6	52.8	48.7	56.1	38.7
2400	90	59.3	59.3	59.9	58.8	62.6	50.7	55.8	55.8	55.8	55.8	58.1	48.0

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 26. Gross cooling capacities 5 tons high efficiency - three phase T/YHC060E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	50.6	39.4	57.2	29.5	66.2	14.8	47.3	37.5	53.5	28.1	62.2	13.9	43.8	35.5	49.7	26.6	58.0	12.7
1000	80	51.5	45.7	57.0	38.5	64.8	26.5	48.2	43.6	53.3	36.9	60.8	25.2	44.8	41.4	49.5	35.1	56.6	23.8
1000	85	53.1	50.7	57.4	46.1	64.0	36.6	49.8	48.3	53.8	44.2	60.1	35.1	46.4	45.8	50.0	42.1	55.9	33.5
1000	90	55.3	54.1	58.5	52.1	64.0	45.3	52.1	51.5	54.9	50.0	60.0	43.6	48.7	48.7	51.1	47.6	55.9	41.7
1200	75	53.1	42.1	59.5	31.9	68.2	17.0	49.7	40.1	55.7	30.4	64.1	15.8	46.1	38.0	51.7	28.7	59.8	14.6
1200	80	54.3	48.7	59.5	41.2	67.0	28.9	50.8	46.5	55.7	39.4	62.9	27.5	47.3	44.1	51.8	37.5	58.7	26.0
1200	85	56.1	53.9	60.1	49.0	66.5	39.3	52.7	51.4	56.4	47.0	62.5	37.7	49.2	48.8	52.5	44.8	58.2	35.9
1200	90	58.5	57.6	61.4	55.4	66.7	48.3	55.2	54.9	57.7	53.1	62.6	46.4	51.7	51.7	53.9	50.6	58.5	44.3
1400	75	55.4	44.6	61.5	34.2	70.0	18.9	51.8	42.5	57.6	32.5	65.8	17.6	48.1	40.3	53.6	30.7	61.4	16.2
1400	80	56.8	51.5	61.7	43.7	69.1	31.1	53.3	49.2	57.9	41.8	64.9	29.6	49.6	46.7	53.9	39.7	60.5	27.9
1400	85	58.8	57.0	62.6	51.8	68.8	41.8	55.3	54.4	58.8	49.6	64.6	40.0	51.7	51.6	54.8	47.3	60.3	38.1
1400	90	61.5	61.0	64.2	58.4	69.2	51.0	58.1	58.1	60.4	56.0	65.1	49.0	54.5	54.5	56.4	53.4	60.8	46.8
1600	75	58.0	46.3	64.5	34.2	71.3	22.4	54.3	44.3	60.5	32.5	67.1	21.0	50.4	42.2	56.3	30.5	62.5	18.4
1600	80	58.7	55.9	64.8	43.5	71.8	31.7	55.0	53.9	60.9	41.7	67.6	29.9	51.3	51.3	56.7	39.7	63.1	27.9
1600	85	61.3	61.3	65.3	53.0	72.2	41.1	58.1	58.1	61.3	51.0	67.9	39.0	54.7	54.7	57.1	49.0	63.4	37.0
1600	90	64.9	64.9	65.8	62.4	72.6	50.2	61.6	61.6	61.9	60.6	68.3	47.9	58.1	58.1	58.0	58.0	63.7	46.0
1800	75	59.6	49.6	66.0	35.9	72.9	22.5	55.7	47.5	61.9	34.5	68.5	20.7	51.7	45.4	57.5	32.4	63.8	18.6
1800	80	60.5	60.3	66.4	46.6	73.5	33.3	57.1	57.1	62.3	44.5	69.0	31.2	53.5	53.5	58.0	42.6	64.3	29.3
1800	85	64.1	64.1	66.9	57.0	73.9	43.4	60.7	60.7	62.8	55.1	69.4	41.5	57.1	57.1	58.5	53.1	64.7	39.4
1800	90	67.8	67.8	67.9	67.7	74.2	53.6	64.3	64.3	64.3	64.3	69.8	51.4	60.6	60.6	60.6	60.6	65.1	49.6
2000	75	60.8	52.8	67.3	37.9	74.2	22.9	56.9	50.8	63.0	35.7	69.6	21.2	52.8	48.7	58.6	33.8	64.9	19.0
2000	80	62.6	62.6	67.7	49.4	74.8	34.6	59.1	59.1	63.5	47.3	70.2	32.6	55.4	55.4	59.0	45.4	65.4	30.5
2000	85	66.5	66.5	68.4	61.1	75.2	45.8	62.9	62.9	64.2	59.2	70.6	43.8	59.2	59.2	59.7	57.2	65.8	41.8
2000	90	70.4	70.4	70.3	70.3	75.5	57.1	66.8	66.8	66.7	66.7	71.0	55.2	62.9	62.9	62.8	62.8	66.2	53.2
2200	75	61.9	56.0	68.3	39.5	75.3	23.3	58.0	54.1	64.0	37.9	70.6	21.0	53.8	52.0	59.4	35.3	65.8	19.1
2200	80	64.5	64.5	68.8	52.2	75.9	35.9	60.9	60.9	64.6	50.2	71.2	33.9	57.2	57.2	60.0	48.2	66.3	31.9
2200	85	68.5	68.5	69.5	65.2	76.3	48.4	64.9	64.9	65.3	63.4	71.7	46.3	61.0	61.0	61.0	60.9	66.7	44.3
2200	90	72.6	72.6	72.6	72.6	76.8	60.8	68.9	68.9	68.8	68.8	72.1	58.8	64.8	64.8	64.8	64.8	67.2	56.9
2400	75	62.9	59.3	69.2	41.2	76.1	22.9	58.9	57.3	64.8	39.1	71.4	21.7	54.8	54.7	60.2	37.0	66.5	19.5
2400	80	66.2	66.2	69.8	55.0	76.9	37.1	62.5	62.5	65.4	53.0	72.1	35.1	58.6	58.6	60.8	51.0	67.1	33.0
2400	85	70.4	70.4	70.8	69.3	77.3	51.0	66.6	66.6	66.7	66.6	72.5	48.5	62.6	62.6	62.5	62.5	67.6	46.8
2400	90	74.6	74.6	74.5	74.5	77.8	64.3	70.7	70.7	70.7	70.7	72.9	62.5	66.6	66.6	66.5	66.5	68.2	60.7

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Table 26. Gross cooling capacities 5 tons high efficiency - three phase T/YHC060E3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	40.1	33.4	45.7	24.9	53.6	11.4	36.3	31.1	41.5	23.0	49.0	10.0
1000	80	41.1	39.0	45.5	33.1	52.3	22.3	37.3	36.5	41.4	31.0	47.8	20.6
1000	85	42.8	42.8	46.0	39.8	51.6	31.7	39.0	39.0	41.9	37.5	47.2	29.7
1000	90	46.8	46.8	47.2	45.1	51.7	39.6	42.7	42.7	43.1	42.5	47.3	37.4
1200	75	42.3	35.7	47.6	26.9	55.3	13.2	38.3	33.3	43.3	24.9	50.7	11.6
1200	80	43.5	41.6	47.7	35.4	54.2	24.3	39.6	38.9	43.4	33.1	49.6	22.5
1200	85	45.5	45.5	48.4	42.4	53.8	33.9	41.6	41.6	44.2	39.9	49.3	31.9
1200	90	49.4	49.4	49.9	48.0	54.1	42.1	45.2	45.2	45.7	45.2	49.6	39.8
1400	75	44.2	37.9	49.3	28.7	56.8	14.7	40.2	35.3	44.9	26.6	52.0	13.0
1400	80	45.7	44.0	49.7	37.5	56.0	26.1	41.7	41.2	45.3	35.1	51.3	24.1
1400	85	47.9	47.9	50.7	44.8	55.8	36.0	43.9	43.9	46.3	42.1	51.1	33.8
1400	90	51.8	51.8	52.3	50.6	56.3	44.5	47.6	47.6	48.0	47.7	51.7	42.0
1600	75	46.3	40.0	51.8	28.3	57.7	16.5	41.9	37.1	46.4	28.1	53.2	14.2
1600	80	47.8	47.8	52.2	37.5	58.2	25.8	43.6	43.3	47.0	36.9	52.7	25.6
1600	85	51.0	51.0	52.6	46.9	58.5	35.0	46.1	46.1	48.2	44.2	52.8	35.6
1600	90	54.3	54.3	54.3	54.3	58.9	44.0	49.7	49.7	50.2	50.1	53.6	44.1
1800	75	47.4	43.3	52.9	30.0	58.9	16.7	43.3	38.7	47.6	29.4	54.2	15.2
1800	80	49.8	49.8	53.4	40.3	59.4	27.1	45.3	45.2	48.4	38.5	53.9	26.9
1800	85	53.3	53.3	54.0	51.0	59.8	37.2	48.0	48.0	49.9	46.1	54.3	37.2
1800	90	56.7	56.7	56.7	56.7	60.1	47.7	52.1	52.1	52.1	52.1	55.3	45.9
2000	75	48.5	46.5	53.8	31.6	59.8	17.0	44.6	40.2	48.6	30.6	55.0	16.1
2000	80	51.6	51.6	54.4	43.2	60.4	28.5	46.8	46.8	49.7	39.9	54.9	28.1
2000	85	55.2	55.2	55.3	55.1	60.7	40.2	49.7	49.7	51.4	47.8	55.5	38.6
2000	90	58.7	58.7	58.7	58.7	61.2	51.3	53.8	53.8	53.8	53.8	56.8	47.6
2200	75	49.4	49.3	54.6	33.2	60.6	17.3	45.6	41.5	49.4	31.6	55.6	16.8
2200	80	53.1	53.1	55.2	46.0	61.1	29.8	48.1	48.1	50.7	41.2	55.7	29.0
2200	85	56.8	56.8	56.8	56.8	61.6	42.5	51.2	51.2	52.7	49.3	56.5	39.8
2200	90	60.6	60.6	60.5	60.5	62.1	55.1	55.3	55.3	55.3	55.3	58.0	49.1
2400	75	50.7	50.7	55.3	35.0	61.3	17.5	46.4	42.6	50.0	32.4	55.9	17.3
2400	80	54.5	54.5	55.9	49.0	61.8	31.1	49.1	49.1	51.5	42.2	56.3	29.8
2400	85	58.3	58.3	58.2	58.2	62.3	44.9	52.5	52.5	53.7	50.7	57.4	40.8
2400	90	62.2	62.2	62.1	62.1	62.9	58.8	56.6	56.6	56.6	56.6	59.1	50.4

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 27. Gross cooling capacities 5 tons high efficiency - three phase T/YHC060F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	48.4	37.7	54.4	28.8	62.5	15.5	45.5	35.9	51.2	27.3	59.1	14.3	42.3	34.0	47.8	25.7	55.4	13.0
1000	80	49.1	43.6	54.1	36.9	61.3	25.8	46.3	41.7	51.1	35.3	58.0	24.6	43.3	39.6	47.8	33.6	54.5	23.2
1000	85	50.3	48.3	54.3	43.8	60.5	34.9	47.6	46.2	51.4	42.0	57.4	33.5	44.8	44.1	48.4	40.2	54.1	32.0
1000	90	51.9	51.7	55.0	49.4	60.2	42.8	49.4	49.4	52.3	47.6	57.3	41.3	46.8	46.8	49.4	45.6	54.1	39.7
1200	75	51.1	40.5	56.8	31.2	64.7	17.6	48.0	38.6	53.5	29.6	61.2	16.3	44.8	36.6	50.0	27.9	57.4	15.0
1200	80	52.0	46.7	56.8	39.6	63.7	28.2	49.1	44.7	53.6	37.9	60.3	26.9	46.0	42.5	50.3	36.1	56.8	25.4
1200	85	53.4	51.7	57.2	46.8	63.2	37.6	50.7	49.5	54.3	45.0	60.0	36.1	47.8	47.2	51.1	43.0	56.6	34.5
1200	90	55.3	55.3	58.2	52.7	63.2	45.8	52.7	52.7	55.3	50.8	60.1	44.2	50.0	50.0	52.4	48.7	56.9	42.4
1400	75	53.4	43.1	58.9	33.4	66.6	19.4	50.3	41.1	55.6	31.7	63.0	18.1	47.0	39.0	52.0	29.9	59.2	16.6
1400	80	54.6	49.6	59.2	42.1	65.9	30.3	51.6	47.4	55.9	40.3	62.4	28.9	48.5	45.2	52.5	38.4	58.7	27.3
1400	85	56.3	54.8	59.9	49.6	65.6	40.0	53.4	52.5	56.8	47.7	62.3	38.5	50.4	50.2	53.5	45.6	58.8	36.7
1400	90	58.4	58.4	61.0	55.8	65.8	48.5	55.7	55.7	58.1	53.8	62.7	46.8	52.9	52.9	55.0	51.6	59.3	45.0
1600	75	55.5	45.3	60.8	35.3	68.2	21.0	52.3	43.3	57.3	33.6	64.5	19.5	48.8	41.0	53.6	31.7	60.6	18.0
1600	80	56.9	52.1	61.2	44.3	67.7	32.2	53.8	49.9	57.9	42.4	64.1	30.6	50.6	47.6	54.4	40.4	60.4	29.0
1600	85	58.8	57.6	62.2	52.1	67.7	42.2	55.9	55.3	59.0	50.1	64.3	40.5	52.8	52.8	55.7	47.9	60.7	38.7
1600	90	61.2	61.2	63.6	58.6	68.1	50.9	58.5	58.5	60.6	56.5	64.9	49.1	55.6	55.6	57.4	54.2	61.5	47.2
1800	75	57.3	47.3	62.3	37.0	69.5	22.3	53.9	45.2	58.7	35.1	65.7	20.7	50.4	42.8	55.0	33.1	61.7	19.1
1800	80	58.9	54.4	63.0	46.2	69.2	33.8	55.8	52.1	59.6	44.3	65.6	32.1	52.4	49.6	56.0	42.2	61.8	30.3
1800	85	61.1	60.2	64.2	54.3	69.5	44.0	58.1	57.8	61.0	52.2	66.0	42.3	54.9	54.9	57.5	50.0	62.3	40.4
1800	90	63.7	63.7	65.9	61.1	70.2	53.1	60.9	60.9	62.8	58.9	66.9	51.2	57.9	57.9	59.6	56.5	63.4	49.2
2000	75	58.7	49.1	63.5	38.3	70.5	23.3	55.3	46.8	59.9	36.4	66.6	21.7	51.7	44.4	56.0	34.3	62.5	19.9
2000	80	60.6	56.4	64.5	47.9	70.5	35.1	57.4	54.0	61.0	45.8	66.8	33.3	54.0	51.5	57.3	43.6	62.9	31.5
2000	85	63.0	62.5	65.9	56.2	71.0	45.7	60.0	60.0	62.6	54.0	67.4	43.8	56.7	56.7	59.1	51.7	63.7	41.8
2000	90	65.9	65.9	67.9	63.3	71.9	55.0	63.0	63.0	64.7	61.0	68.5	53.0	59.9	59.9	61.4	58.6	65.0	50.9
2200	75	59.9	50.5	64.5	39.4	71.2	24.0	56.4	48.1	60.7	37.4	67.2	22.3	52.7	45.6	56.8	35.2	63.1	20.5
2200	80	62.1	58.1	65.7	49.3	71.4	36.1	58.7	55.7	62.1	47.1	67.6	34.3	55.2	53.0	58.4	44.8	63.6	32.3
2200	85	64.7	64.5	67.4	57.9	72.2	47.0	61.6	61.6	64.0	55.6	68.5	45.0	58.2	58.2	60.4	53.2	64.7	42.9
2200	90	67.9	67.9	69.5	65.3	73.4	56.6	64.9	64.9	66.3	62.9	69.9	54.5	61.7	61.7	62.9	60.4	66.2	52.3
2400	75	60.8	51.7	65.1	40.3	71.6	24.5	57.2	49.2	61.3	38.1	67.5	22.7	53.4	46.6	57.3	35.8	63.3	20.7
2400	80	63.2	59.6	66.6	50.4	72.1	36.9	59.8	57.0	62.9	48.2	68.2	35.0	56.2	54.3	59.1	45.8	64.1	32.9
2400	85	66.1	66.1	68.5	59.3	73.1	48.0	62.8	62.8	65.0	57.0	69.4	46.0	59.4	59.4	61.3	54.4	65.4	43.8
2400	90	69.5	69.5	70.9	67.0	74.6	57.9	66.4	66.4	67.6	64.5	71.0	55.8	63.1	63.1	64.1	61.9	67.2	53.5

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Table 27. Gross cooling capacities 5 tons high efficiency - three phase T/YHC060F3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1000	75	39.0	31.9	44.2	23.9	51.6	11.6	35.5	29.7	40.5	22.0	47.6	10.1
1000	80	40.1	37.4	44.4	31.7	50.9	21.6	36.8	35.1	40.8	29.7	47.0	20.0
1000	85	41.8	41.7	45.1	38.2	50.6	30.4	38.6	38.6	41.7	36.1	46.9	28.6
1000	90	43.9	43.9	46.3	43.5	50.8	37.9	42.6	42.6	43.0	41.2	47.3	36.0
1200	75	41.4	34.4	46.4	26.1	53.5	13.4	37.8	32.1	42.5	24.1	49.4	11.8
1200	80	42.8	40.3	46.8	34.2	53.0	23.7	39.4	37.8	43.2	32.1	49.1	22.0
1200	85	44.7	44.7	47.8	41.0	53.0	32.8	41.4	41.4	44.3	38.7	49.2	30.9
1200	90	47.1	47.1	49.2	46.5	53.5	40.6	45.4	45.4	45.8	44.2	49.9	38.6
1400	75	43.5	36.7	48.2	28.0	55.2	15.0	39.8	34.3	44.3	25.9	51.0	13.3
1400	80	45.1	42.8	48.9	36.3	54.9	25.6	41.6	40.3	45.2	34.1	50.9	23.7
1400	85	47.3	47.3	50.1	43.4	55.1	34.9	43.9	43.9	46.5	41.1	51.3	32.9
1400	90	49.9	49.9	51.8	49.3	55.8	43.0	47.9	47.9	48.4	46.9	52.2	40.9
1600	75	45.3	38.7	49.8	29.6	56.5	16.3	41.5	36.2	45.8	27.5	52.2	14.4
1600	80	47.2	45.1	50.8	38.3	56.5	27.1	43.6	42.4	46.9	36.0	52.4	25.2
1600	85	49.6	49.6	52.2	45.7	57.0	36.8	46.1	46.1	48.5	43.2	53.0	34.7
1600	90	52.5	52.5	54.1	51.8	57.9	45.1	50.1	50.1	50.6	49.3	54.2	42.9
1800	75	46.8	40.4	51.1	31.0	57.5	17.3	42.9	37.8	47.0	28.7	53.2	15.3
1800	80	48.9	47.1	52.3	39.9	57.8	28.4	45.2	44.4	48.3	37.5	53.6	26.4
1800	85	51.6	51.6	54.0	47.6	58.5	38.3	48.1	48.1	50.2	45.1	54.5	36.2
1800	90	54.7	54.7	56.1	54.0	59.7	47.0	52.0	52.0	52.5	51.4	55.9	44.7
2000	75	48.0	41.8	52.0	32.1	58.3	18.0	44.0	39.1	47.9	29.7	53.9	16.0
2000	80	50.4	48.8	53.5	41.3	58.8	29.5	46.6	46.0	49.5	38.8	54.5	27.3
2000	85	53.3	53.3	55.4	49.3	59.7	39.7	49.7	49.7	51.6	46.7	55.6	37.4
2000	90	57.3	57.3	57.9	56.0	61.2	48.6	53.6	53.6	54.2	53.3	57.3	46.2
2200	75	48.9	43.0	52.7	32.9	58.7	18.5	44.9	40.2	48.5	30.4	54.2	16.4
2200	80	51.6	50.3	54.4	42.4	59.5	30.2	47.7	47.3	50.3	39.8	55.1	28.0
2200	85	54.7	54.7	56.6	50.7	60.7	40.7	51.0	51.0	52.7	48.0	56.5	38.3
2200	90	58.7	58.7	59.3	57.7	62.4	50.0	55.0	55.0	55.5	54.9	58.4	47.5
2400	75	49.5	43.9	53.1	33.4	58.9	18.7	45.4	41.0	48.8	30.9	54.3	16.4
2400	80	52.4	51.4	55.1	43.2	59.9	30.7	48.5	48.4	50.9	40.6	55.4	28.4
2400	85	55.8	55.8	57.5	51.8	61.3	41.5	52.0	52.0	53.5	49.0	57.1	39.0
2400	90	59.8	59.8	60.4	59.1	63.3	51.0	56.0	56.0	56.6	56.2	59.2	48.5

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 28. Gross cooling capacities 6 tons high efficiency - three phase T/YHC072F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1200	75	57.38	45.11	64.42	34.56	73.89	18.95	54.03	43.15	60.77	33.00	69.96	17.80	50.35	40.96	56.80	31.22	65.70	16.42
1200	80	58.22	52.14	64.05	44.19	72.33	31.17	55.02	50.02	60.56	42.47	68.55	29.87	51.50	47.68	56.75	40.54	64.44	28.34
1200	85	59.60	57.69	64.23	52.33	71.31	41.91	56.56	55.42	60.90	50.46	67.68	40.46	53.19	52.92	57.24	48.38	63.73	38.78
1200	90	61.53	61.53	64.96	59.00	70.84	51.18	58.64	58.64	61.78	56.98	67.36	49.56	55.43	55.43	58.28	54.74	63.56	47.73
1440	75	60.55	48.45	67.30	37.48	76.48	21.46	57.11	46.38	63.56	35.82	72.45	20.20	53.35	44.08	59.51	33.93	68.10	18.73
1440	80	61.64	55.77	67.18	47.41	75.16	33.98	58.36	53.55	63.60	45.59	71.29	32.57	54.75	51.10	59.70	43.55	67.10	30.94
1440	85	63.28	61.62	67.62	55.85	74.40	45.02	60.15	59.24	64.19	53.88	70.68	43.46	56.69	56.64	60.44	51.68	66.63	41.67
1440	90	65.46	65.46	68.60	62.81	74.17	54.58	62.48	62.48	65.33	60.68	70.61	52.86	59.18	59.18	61.73	58.34	66.72	50.92
1680	75	63.35	51.47	69.80	40.09	78.69	23.66	59.82	49.29	65.98	38.32	74.57	22.30	55.97	46.89	61.83	36.33	70.13	20.71
1680	80	64.69	59.09	69.94	50.31	77.62	36.48	61.32	56.76	66.27	48.39	73.66	34.96	57.62	54.20	62.28	46.24	69.37	33.22
1680	85	66.58	65.23	70.62	59.05	77.10	47.81	63.36	62.74	67.11	56.97	73.30	46.14	59.82	59.82	63.27	54.67	69.16	44.25
1680	90	69.01	69.01	71.85	66.30	77.13	57.66	65.95	65.95	68.49	64.07	73.48	55.84	62.56	62.56	64.81	61.62	69.50	53.80
1920	75	65.78	54.17	71.93	42.38	80.52	25.54	62.16	51.88	68.01	40.51	76.31	24.07	58.22	49.38	63.78	38.41	71.78	22.38
1920	80	67.37	62.08	72.32	52.90	79.70	38.65	63.90	59.65	68.56	50.87	75.65	37.03	60.12	56.99	64.48	48.62	71.28	35.18
1920	85	69.51	68.52	73.25	61.93	79.44	50.28	66.19	65.93	69.65	59.75	75.54	48.51	62.56	62.56	65.72	57.34	71.32	46.51
1920	90	72.19	72.19	74.73	69.48	79.71	60.43	69.03	69.03	71.28	67.15	75.97	58.50	65.55	65.55	67.51	64.59	71.90	56.35
2160	75	67.82	56.56	73.67	44.36	81.97	27.11	64.11	54.16	69.67	42.38	77.67	25.53	60.08	51.55	65.35	40.17	73.05	23.73
2160	80	69.66	64.77	74.31	55.17	81.41	40.51	66.11	62.22	70.47	53.03	77.26	38.78	62.23	59.46	66.30	50.68	72.80	36.83
2160	85	72.05	71.50	75.50	64.50	81.39	52.44	68.65	68.65	71.81	62.21	77.40	50.56	64.93	64.93	67.79	59.70	73.09	48.45
2160	90	74.99	74.99	77.23	72.35	81.92	62.89	71.74	71.74	73.69	69.90	78.09	60.85	68.17	68.17	69.83	67.24	73.93	58.59
2400	75	69.49	58.62	75.05	46.02	83.04	28.36	65.69	56.13	70.95	43.93	78.66	26.67	61.57	53.41	66.54	41.62	73.95	24.77
2400	80	71.58	67.13	75.94	57.12	82.73	42.06	67.94	64.48	72.00	54.88	78.50	40.22	63.97	61.61	67.74	52.42	73.95	38.16
2400	85	74.22	74.16	77.37	66.75	82.97	54.28	70.73	70.73	73.59	64.35	78.89	52.29	66.92	66.92	69.48	61.74	74.49	50.08
2400	90	77.41	77.41	79.36	74.89	83.75	65.02	74.07	74.07	75.73	72.34	79.82	62.88	70.41	70.41	71.78	69.58	75.58	60.52
2640	75	70.78	60.38	76.04	47.36	83.74	29.29	66.89	57.78	71.86	45.17	79.26	27.50	62.68	54.95	67.36	42.75	74.47	25.49
2640	80	73.13	69.18	77.18	58.76	83.68	43.29	69.39	66.43	73.16	56.41	79.36	41.34	65.34	63.45	68.81	53.84	74.72	39.18
2640	85	76.02	76.02	78.87	68.68	84.17	55.80	72.44	72.44	75.00	66.18	80.00	53.71	68.53	68.53	70.80	63.46	75.51	51.39
2640	90	79.45	79.45	81.10	77.12	85.20	66.84	76.03	76.03	77.39	74.47	81.19	64.59	72.61	72.61	73.34	71.59	76.85	62.13
2880	75	71.69	61.82	76.66	48.39	84.06	29.90	67.72	59.11	72.39	46.09	79.50	28.01	63.42	56.18	67.79	43.56	74.61	25.89
2880	80	74.29	70.92	78.05	60.09	84.25	44.20	70.47	68.05	73.93	57.63	79.84	42.15	66.32	64.97	69.49	54.96	75.11	39.88
2880	85	77.43	77.43	79.99	70.30	84.99	57.01	73.76	73.76	76.03	67.69	80.73	54.81	69.77	69.77	71.74	64.87	76.15	52.39
2880	90	81.12	81.12	82.47	79.04	86.27	68.35	77.60	77.60	78.67	76.28	82.17	65.99	73.79	73.79	74.53	73.30	77.74	63.42

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Table 28. Gross cooling capacities 6 tons high efficiency - three phase T/YHC072F3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1200	75	46.36	38.55	52.51	29.22	61.11	14.83	42.04	35.93	47.90	27.00	56.20	13.02
1200	80	47.66	45.12	52.61	38.39	60.01	26.59	43.49	42.34	48.15	36.02	55.26	24.63
1200	85	49.50	49.50	53.26	46.07	59.45	36.88	45.49	45.49	48.95	43.55	54.85	34.76
1200	90	51.90	51.90	54.45	52.28	59.44	45.68	49.79	49.79	50.30	49.60	54.99	43.41
1440	75	49.26	41.57	55.13	31.83	63.43	17.03	44.85	38.84	50.42	29.50	58.43	15.11
1440	80	50.82	48.44	55.48	41.29	62.58	29.09	46.56	45.55	50.93	38.81	57.73	27.01
1440	85	52.91	52.91	56.37	49.27	62.27	39.67	48.81	48.81	51.98	46.64	57.58	37.44
1440	90	57.23	57.23	57.81	55.77	62.51	48.76	53.04	53.04	53.57	52.99	57.97	46.39
1680	75	51.80	44.27	57.36	34.12	65.37	18.91	47.30	41.43	52.57	31.69	60.28	16.88
1680	80	53.60	51.43	57.96	43.88	64.76	31.26	49.25	48.44	53.32	41.29	59.83	29.08
1680	85	55.95	55.95	59.11	52.15	64.71	42.14	51.76	51.76	54.62	49.42	59.93	39.81
1680	90	60.19	60.19	60.80	58.95	65.20	51.53	55.90	55.90	56.47	56.06	60.57	49.05
1920	75	53.95	46.66	59.22	36.09	66.93	20.47	49.36	43.71	54.34	33.55	61.75	18.34
1920	80	56.00	54.11	60.07	46.15	66.58	33.12	51.57	51.02	55.34	43.45	61.55	30.84
1920	85	58.60	58.60	61.47	54.72	66.77	44.29	54.32	54.32	56.89	51.88	61.90	41.85
1920	90	62.78	62.78	63.41	61.81	67.51	53.98	58.40	58.40	58.99	58.82	62.80	51.39
2160	75	55.73	48.72	60.70	37.75	68.11	21.71	51.05	45.67	55.73	35.10	62.85	19.48
2160	80	58.03	56.48	61.80	48.10	68.01	34.66	53.51	53.27	56.98	45.30	62.90	32.27
2160	85	60.88	60.88	63.45	56.97	68.46	46.13	56.51	56.51	58.79	54.02	63.50	43.59
2160	90	64.99	64.99	65.64	64.36	69.45	56.12	61.13	61.13	61.13	61.13	64.65	53.42
2400	75	57.13	50.48	61.80	39.09	68.92	22.65	52.36	47.32	56.74	36.34	63.56	20.30
2400	80	59.68	58.52	63.16	49.74	69.07	35.89	55.07	55.07	58.25	46.83	63.87	33.39
2400	85	62.78	62.78	65.05	58.90	69.77	47.65	58.32	58.32	60.30	55.85	64.72	45.00
2400	90	66.82	66.82	67.50	66.59	71.01	57.94	62.90	62.90	62.90	62.90	66.12	55.13
2640	75	58.15	51.91	62.53	40.11	69.35	23.26	53.29	48.65	57.38	37.26	63.90	20.81
2640	80	60.96	60.26	64.13	51.06	69.75	36.80	56.25	56.25	59.13	48.05	64.46	34.20
2640	85	64.31	64.31	66.28	60.52	70.70	48.86	59.76	59.76	61.44	57.36	65.56	46.10
2640	90	68.29	68.29	68.98	68.50	72.19	59.44	64.29	64.29	64.29	64.29	67.21	56.53
2880	75	58.79	53.03	62.88	40.82	69.40	23.56	53.85	49.66	57.64	37.86	63.86	21.00
2880	80	61.85	61.67	64.73	52.06	70.05	37.39	57.06	57.06	59.64	48.95	64.67	34.68
2880	85	65.45	65.45	67.13	61.82	71.25	49.75	60.82	60.82	62.20	58.55	66.02	46.89
2880	90	70.08	70.08	70.08	70.08	72.99	60.62	65.30	65.30	65.30	65.30	67.92	57.61

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 29. Gross cooling capacities 6 tons high efficiency - three phase T/YHC072E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1200	75	62.5	48.5	69.3	36.5	78.5	19.0	59.7	47.2	66.1	35.7	74.8	18.6	56.6	45.7	62.6	34.7	71.0	18.0
1200	80	63.6	55.8	69.3	46.8	77.3	32.3	60.9	54.3	66.1	45.8	73.8	31.6	57.9	52.6	62.7	44.5	70.0	30.8
1200	85	65.4	61.5	70.0	55.5	76.9	43.9	62.7	59.7	66.9	54.2	73.4	43.0	59.8	57.7	63.5	52.6	69.7	41.9
1200	90	67.9	65.5	71.3	62.5	77.1	53.9	65.3	63.5	68.3	60.9	73.7	52.7	62.4	61.3	65.0	59.1	70.0	51.4
1440	75	64.9	51.2	71.3	38.6	80.1	20.4	61.9	49.7	67.9	37.6	76.3	19.9	58.7	48.0	64.3	36.4	72.3	19.1
1440	80	66.5	59.0	71.7	49.4	79.4	34.2	63.5	57.3	68.4	48.1	75.6	33.4	60.3	55.3	64.8	46.7	71.7	32.3
1440	85	68.7	65.2	72.8	58.6	79.3	46.4	65.8	63.2	69.5	57.1	75.6	45.3	62.7	61.0	66.0	55.3	71.7	44.0
1440	90	71.5	69.8	74.5	66.1	79.9	56.9	68.7	67.5	71.3	64.3	76.3	55.5	65.7	65.1	67.9	62.3	72.5	53.9
1680	75	66.9	53.4	72.9	40.2	81.3	21.4	63.7	51.7	69.3	39.0	77.3	20.6	60.3	49.8	65.5	37.5	73.0	19.6
1680	80	68.8	61.7	73.7	51.5	80.9	35.7	65.7	59.8	70.1	50.0	77.0	34.7	62.3	57.6	66.4	48.3	72.8	33.4
1680	85	71.4	68.5	75.1	61.2	81.2	48.4	68.3	66.3	71.7	59.5	77.4	47.1	65.0	63.9	68.0	57.5	73.3	45.6
1680	90	74.6	73.5	77.3	69.3	82.2	59.4	71.7	71.1	73.9	67.3	78.5	57.8	68.4	68.4	70.3	65.0	74.4	56.0
1920	75	68.3	55.1	73.9	41.3	81.9	21.9	64.9	53.2	70.2	39.9	77.7	20.9	61.3	51.1	66.2	38.2	73.3	19.7
1920	80	70.6	64.0	75.1	53.2	81.9	36.7	67.3	61.8	71.4	51.5	77.8	35.5	63.8	59.5	67.5	49.6	73.5	34.0
1920	85	73.6	71.2	76.9	63.4	82.7	49.9	70.4	68.8	73.3	61.4	78.6	48.4	66.9	66.2	69.4	59.2	74.4	46.7
1920	90	77.2	76.8	79.5	71.9	84.0	61.4	74.1	74.1	75.9	69.7	80.1	59.6	70.7	70.7	72.1	67.3	75.9	57.7
2160	75	69.2	56.4	74.4	41.9	82.0	21.9	65.7	54.2	70.5	40.3	77.7	20.7	61.9	51.9	66.3	38.4	73.1	19.3
2160	80	71.9	65.7	76.0	54.3	82.5	37.3	68.5	63.4	72.1	52.4	78.2	35.8	64.7	60.8	68.0	50.3	73.7	34.1
2160	85	75.3	73.5	78.2	65.0	83.6	50.9	71.9	70.9	74.4	62.9	79.4	49.2	68.2	68.1	70.4	60.5	74.9	47.3
2160	90	79.3	79.3	81.2	74.1	85.4	63.0	76.0	76.0	77.4	71.7	81.2	61.0	72.4	72.4	73.5	69.0	76.8	58.8
2400	75	69.7	57.1	74.5	42.1	81.7	21.5	65.9	54.8	70.4	40.2	77.1	20.0	62.0	52.3	66.0	38.2	72.4	18.4
2400	80	72.7	67.0	76.4	55.0	82.5	37.3	69.1	64.5	72.4	52.9	78.0	35.6	65.2	61.7	68.1	50.5	73.3	33.7
2400	85	76.5	75.3	79.1	66.2	84.0	51.5	72.9	72.5	75.1	63.8	79.6	49.6	69.1	69.1	70.9	61.2	75.0	47.4
2400	90	80.9	80.9	82.4	75.8	86.2	64.1	77.4	77.4	78.4	73.2	81.8	61.9	73.7	73.7	74.3	70.3	77.3	59.5
2640	75	69.6	57.4	74.0	41.8	80.8	20.5	65.7	54.9	69.7	39.7	76.1	18.9	61.5	52.2	65.2	37.4	71.1	17.0
2640	80	73.0	67.8	76.3	55.2	82.0	36.9	69.2	65.1	72.1	52.8	77.4	35.0	65.2	62.1	67.6	50.3	72.5	32.9
2640	85	77.2	76.6	79.4	66.9	83.9	51.6	73.4	73.4	75.2	64.3	79.3	49.4	69.4	69.4	70.8	61.5	74.5	47.1
2640	90	82.0	82.0	83.0	77.0	86.4	64.7	78.3	78.3	79.0	74.2	82.0	62.2	74.4	74.4	74.6	71.1	77.2	59.6
2880	75	69.0	57.2	73.0	41.0	79.4	19.1	64.9	54.5	68.5	38.7	74.5	17.2	60.6	51.6	63.8	36.2	69.4	15.2
2880	80	72.8	68.2	75.7	54.9	81.0	36.0	68.8	65.2	71.3	52.3	76.2	33.9	64.6	62.0	66.7	49.6	71.2	31.6
2880	85	77.4	77.4	79.1	67.1	83.3	51.2	73.4	73.4	74.8	64.3	78.5	48.8	69.3	69.3	70.2	61.3	73.6	46.3
2880	90	82.6	82.6	83.2	77.7	86.2	64.8	78.7	78.7	79.0	74.7	81.6	62.2	74.6	74.6	74.5	71.4	76.7	59.3

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Table 29. Gross cooling capacities 6 tons high efficiency - three phase T/YHC072E3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1200	75	53.3	44.1	58.9	33.5	66.9	17.3	49.7	42.2	54.9	32.0	62.5	16.3
1200	80	54.6	50.6	59.1	43.0	65.9	29.8	51.1	48.5	55.2	41.3	61.7	28.5
1200	85	56.6	55.5	60.0	50.9	65.7	40.6	53.2	53.2	56.2	48.9	61.5	39.1
1200	90	59.3	58.8	61.5	57.1	66.1	49.8	56.0	56.0	57.8	54.9	62.0	48.1
1440	75	55.2	46.1	60.4	34.9	68.0	18.1	51.5	44.0	56.3	33.3	63.4	16.9
1440	80	56.9	53.2	61.0	45.0	67.4	31.1	53.3	50.9	56.9	43.1	63.0	29.6
1440	85	59.3	58.6	62.3	53.4	67.6	42.5	55.7	55.7	58.3	51.2	63.2	40.8
1440	90	62.4	62.4	64.2	60.1	68.4	52.2	58.9	58.9	60.3	57.7	64.1	50.2
1680	75	56.6	47.7	61.4	35.9	68.6	18.4	52.7	45.4	57.1	34.0	63.9	17.0
1680	80	58.7	55.3	62.4	46.4	68.4	32.0	54.9	52.7	58.2	44.3	63.8	30.3
1680	85	61.5	61.2	64.1	55.4	69.0	43.8	57.8	57.8	59.9	53.0	64.4	41.9
1680	90	65.0	65.0	66.4	62.6	70.2	54.1	61.3	61.3	62.3	60.0	65.7	51.9
1920	75	57.5	48.8	61.9	36.4	68.7	18.3	53.4	46.3	57.4	34.3	63.8	16.7
1920	80	60.0	56.9	63.3	47.4	68.9	32.3	56.0	54.2	58.9	45.1	64.1	30.5
1920	85	63.2	63.2	65.3	56.9	69.9	44.7	59.3	59.3	61.0	54.3	65.1	42.6
1920	90	67.1	67.1	68.1	64.6	71.5	55.5	63.2	63.2	63.8	61.8	66.8	53.1
2160	75	57.9	49.4	61.9	36.4	68.3	17.7	53.6	46.7	57.3	34.1	63.2	15.9
2160	80	60.8	58.1	63.7	48.0	68.9	32.2	56.6	55.1	59.1	45.4	63.9	30.2
2160	85	64.4	64.4	66.1	57.9	70.2	45.1	60.3	60.3	61.6	55.1	65.3	42.8
2160	90	68.6	68.6	69.2	66.2	72.2	56.4	64.2	64.2	64.8	63.2	67.4	53.8
2400	75	57.8	49.6	61.4	35.9	67.4	16.6	53.3	46.6	56.6	33.4	62.1	14.5
2400	80	61.1	58.7	63.6	48.0	68.4	31.6	56.7	55.5	58.8	45.3	63.3	29.4
2400	85	65.0	65.0	66.4	58.4	70.1	45.1	60.7	60.7	61.7	55.5	65.0	42.5
2400	90	69.7	69.7	69.9	67.3	72.5	56.9	64.6	64.6	65.3	64.0	67.5	54.1
2640	75	57.2	49.2	60.4	34.9	66.0	15.0	52.6	46.1	55.4	32.2	60.6	12.8
2640	80	60.8	58.9	62.9	47.5	67.4	30.6	56.3	55.5	58.0	44.6	62.1	28.1
2640	85	65.2	65.2	66.2	58.5	69.5	44.5	60.7	60.7	61.3	55.3	64.2	41.8
2640	90	70.2	70.2	70.1	67.8	72.3	56.8	64.6	64.6	65.3	64.4	67.1	53.8
2880	75	56.0	48.4	58.9	33.5	64.1	12.9	51.3	45.1	53.7	30.6	58.5	10.5
2880	80	60.1	58.6	61.8	46.6	65.9	29.0	55.4	55.0	56.7	43.5	60.4	26.3
2880	85	64.9	64.9	65.4	58.1	68.4	43.5	60.2	60.2	60.4	54.7	62.9	40.5
2880	90	69.0	69.0	69.7	68.0	71.5	56.3	64.1	64.1	64.8	64.3	66.2	53.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 30. Gross cooling capacities 7½ tons high efficiency - three phase T/YHC092F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1500	75	73.3	55.9	82.4	43.1	94.8	24.4	69.0	53.3	77.7	40.9	89.7	22.7	64.4	50.6	72.8	38.6	84.4	20.9
1500	80	74.0	64.4	81.6	54.6	92.4	39.1	69.8	61.6	77.1	52.3	87.5	37.1	65.4	58.6	72.3	49.7	82.3	35.0
1500	85	75.5	71.1	81.6	64.4	90.9	52.0	71.5	68.0	77.2	61.8	86.1	49.8	67.2	64.8	72.5	59.0	81.0	47.4
1500	90	77.7	76.0	82.3	72.4	90.1	63.1	73.8	72.6	78.0	69.5	85.4	60.6	69.7	69.2	73.5	66.5	80.5	58.0
1800	75	77.3	60.2	86.1	46.9	98.1	27.8	72.8	57.5	81.3	44.6	92.9	25.9	68.1	54.7	76.2	42.2	87.4	23.9
1800	80	78.3	69.1	85.6	58.9	96.1	42.9	74.0	66.1	80.9	56.3	91.0	40.7	69.5	63.0	76.0	53.6	85.7	38.4
1800	85	80.1	76.2	85.9	69.1	94.9	56.1	76.0	73.0	81.3	66.3	89.9	53.8	71.5	69.6	76.5	63.3	84.7	51.2
1800	90	82.7	81.5	86.9	77.5	94.4	67.6	78.7	78.0	82.5	74.4	89.6	65.0	74.4	74.4	77.9	71.2	84.5	62.2
2100	75	80.8	64.2	89.3	50.4	101.0	30.7	76.3	61.3	84.4	47.9	95.7	28.7	71.4	58.3	79.1	45.3	90.1	26.5
2100	80	82.2	73.5	89.2	62.7	99.3	46.2	77.8	70.3	84.4	60.0	94.1	43.9	73.1	67.1	79.3	57.2	88.6	41.5
2100	85	84.4	80.9	89.8	73.3	98.4	59.9	80.0	77.6	85.1	70.4	93.3	57.3	75.5	74.0	80.1	67.3	88.0	54.6
2100	90	87.2	86.6	91.1	82.1	98.3	71.8	83.1	83.0	86.6	78.9	93.3	69.0	78.6	78.6	81.8	75.5	88.1	66.0
2400	75	84.0	67.7	92.2	53.4	103.5	33.3	79.3	64.7	87.0	50.8	98.0	31.1	74.3	61.5	81.7	48.0	92.2	28.7
2400	80	85.7	77.4	92.3	66.2	102.1	49.1	81.1	74.1	87.3	63.3	96.8	46.7	76.2	70.7	82.1	60.3	91.1	44.1
2400	85	88.1	85.3	93.2	77.1	101.5	63.2	83.7	81.7	88.4	74.0	96.3	60.5	79.0	78.1	83.3	70.8	90.8	57.7
2400	90	91.4	91.4	94.9	86.3	101.7	75.5	87.0	87.0	90.2	83.0	96.6	72.5	82.5	82.5	85.3	79.4	91.3	69.4
2700	75	86.7	70.8	94.5	56.0	105.5	35.4	81.8	67.7	89.3	53.3	99.9	33.0	76.7	64.3	83.7	50.4	94.0	30.6
2700	80	88.7	80.9	95.0	69.2	104.5	51.6	84.0	77.5	89.9	66.2	99.0	49.0	79.0	73.9	84.5	63.0	93.2	46.3
2700	85	91.5	89.2	96.3	80.6	104.2	66.1	86.9	85.5	91.3	77.3	98.9	63.3	82.0	81.7	86.0	73.9	93.2	60.3
2700	90	95.0	95.0	98.3	90.1	104.7	78.8	90.6	90.6	93.4	86.6	99.5	75.7	85.8	85.8	88.3	83.0	94.0	72.4
3000	75	89.0	73.6	96.5	58.2	107.2	37.1	83.9	70.2	91.1	55.3	101.4	34.6	78.7	66.7	85.4	52.3	95.3	32.0
3000	80	91.3	84.0	97.3	71.8	106.4	53.7	86.4	80.4	92.0	68.6	100.8	51.0	81.3	76.7	86.5	65.3	94.9	48.1
3000	85	94.4	92.7	98.8	83.6	106.5	68.6	89.7	88.9	93.7	80.1	101.0	65.6	84.7	84.7	88.3	76.6	95.2	62.5
3000	90	98.3	98.3	101.2	93.6	107.3	81.7	93.7	93.7	96.2	89.9	101.9	78.4	88.8	88.8	90.9	86.0	96.2	75.0
3300	75	90.8	75.9	98.0	60.0	108.3	38.4	85.6	72.4	92.4	57.0	102.4	35.7	80.2	68.7	86.6	53.8	96.2	33.0
3300	80	93.5	86.7	99.1	74.0	107.9	55.4	88.4	83.0	93.7	70.7	102.1	52.5	83.1	79.1	88.0	67.2	96.1	49.5
3300	85	96.9	95.8	101.0	86.2	108.3	70.7	92.0	91.8	95.7	82.6	102.6	67.6	86.8	86.8	90.2	78.9	96.7	64.2
3300	90	101.1	101.1	103.6	96.5	109.4	84.2	96.3	96.3	98.5	92.7	103.9	80.8	91.3	91.3	93.1	88.7	98.1	77.2
3600	75	92.2	77.8	99.0	61.4	109.1	39.3	86.9	74.1	93.3	58.2	103.0	36.5	81.3	70.3	87.4	54.8	96.6	33.5
3600	80	95.2	89.0	100.5	75.8	109.0	56.7	90.0	85.1	94.9	72.3	103.0	53.7	84.6	81.1	89.1	68.7	96.8	50.5
3600	85	98.9	98.5	102.7	88.4	109.7	72.4	93.9	93.9	97.3	84.6	103.9	69.1	88.6	88.6	91.6	80.7	97.8	65.6
3600	90	103.4	103.4	105.7	99.1	111.1	86.3	98.5	98.5	100.4	95.1	105.4	82.7	93.4	93.4	94.8	91.0	99.5	79.0

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Table 30. Gross cooling capacities 7½ tons high efficiency - three phase T/YHC092F3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1500	75	59.6	47.7	67.6	36.2	78.8	18.8	54.5	44.7	62.1	33.6	72.9	16.7
1500	80	60.7	55.5	67.2	47.0	76.9	32.7	55.8	52.2	61.9	44.2	71.1	30.3
1500	85	62.6	61.4	67.6	56.0	75.7	44.9	57.8	57.8	62.4	52.9	70.1	42.2
1500	90	65.3	65.3	68.7	63.3	75.3	55.2	60.6	60.6	63.7	59.9	69.9	52.2
1800	75	63.2	51.6	70.8	39.6	81.7	21.7	57.9	48.5	65.2	36.8	75.7	19.4
1800	80	64.6	59.8	70.8	50.8	80.1	36.0	59.5	56.3	65.3	47.8	74.2	33.4
1800	85	66.9	66.1	71.5	60.2	79.3	48.5	61.9	61.9	66.1	57.0	73.5	45.7
1800	90	69.8	69.8	72.9	67.8	79.2	59.3	65.0	65.0	67.7	64.3	73.6	56.2
2100	75	66.3	55.1	73.6	42.6	84.2	24.2	60.9	51.8	67.9	39.7	78.0	21.7
2100	80	68.1	63.6	73.9	54.2	82.9	38.9	62.9	60.0	68.3	51.0	76.9	36.1
2100	85	70.6	70.3	74.9	64.0	82.4	51.8	65.6	65.6	69.4	60.6	76.5	48.8
2100	90	74.0	74.0	76.7	72.0	82.6	62.9	69.0	69.0	71.4	68.3	76.9	59.7
2400	75	69.0	58.2	76.0	45.1	86.2	26.3	63.5	54.7	70.1	42.1	79.9	23.6
2400	80	71.1	67.1	76.6	57.1	85.3	41.4	65.7	63.4	70.8	53.8	79.1	38.5
2400	85	74.0	74.0	77.9	67.3	85.1	54.7	68.8	68.8	72.3	63.8	79.0	51.5
2400	90	77.6	77.6	80.0	75.8	85.6	66.2	72.5	72.5	74.5	71.9	79.8	62.8
2700	75	71.3	60.9	77.9	47.3	87.8	27.9	65.6	57.2	71.9	44.1	81.4	25.1
2700	80	73.7	70.2	78.9	59.7	87.2	43.4	68.2	66.3	72.9	56.2	80.9	40.4
2700	85	76.9	76.9	80.5	70.3	87.3	57.1	71.5	71.5	74.7	66.6	81.2	53.8
2700	90	80.9	80.9	82.9	79.1	88.2	69.0	75.6	75.6	77.3	75.1	82.2	65.5
3000	75	73.1	63.1	79.4	49.0	89.0	29.2	67.3	59.3	73.3	45.7	82.4	26.2
3000	80	75.9	72.8	80.7	61.8	88.7	45.1	70.2	68.8	74.6	58.2	82.2	41.8
3000	85	79.4	79.4	82.7	72.8	89.1	59.2	73.9	73.9	76.7	69.0	82.8	55.7
3000	90	83.7	83.7	85.4	82.1	90.3	71.5	78.8	78.8	79.6	77.9	84.2	67.7
3300	75	74.5	64.9	80.5	50.4	89.7	30.0	68.6	61.0	74.2	46.9	83.0	26.9
3300	80	77.6	75.0	82.1	63.6	89.7	46.3	71.8	70.8	75.9	59.8	83.1	42.9
3300	85	81.4	81.4	84.4	75.0	90.5	60.8	75.8	75.8	78.3	70.9	84.1	57.2
3300	90	86.0	86.0	87.4	84.6	92.0	73.5	80.7	80.7	81.5	80.3	85.7	69.6
3600	75	75.5	66.4	81.1	51.3	90.0	30.4	69.4	62.3	74.7	47.6	83.1	27.2
3600	80	78.9	76.9	83.0	64.9	90.3	47.1	72.9	72.5	76.7	61.0	83.6	43.6
3600	85	83.0	83.0	85.6	76.7	91.4	62.0	77.2	77.2	79.4	72.5	84.8	58.2
3600	90	88.0	88.0	89.0	86.7	93.3	75.1	82.1	82.1	83.0	82.3	86.8	71.1

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 31. Gross cooling capacities 8½ tons high efficiency - three phase T/YHC102F3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1700	75	84.40	64.2	93.7	45.5	106.8	18.8	80.3	62.2	89.2	44.2	101.9	31.4	75.7	59.8	84.2	42.6	96.6	30.3
1700	80	85.75	74.8	92.9	60.7	103.8	38.6	81.7	72.4	88.4	59.0	98.9	37.5	77.1	69.6	83.5	56.9	93.6	36.2
1700	85	87.95	82.5	92.9	73.0	101.6	55.4	83.9	79.6	88.4	70.8	96.7	54.0	79.4	76.4	83.5	68.3	91.5	52.2
1700	90	91.00	87.2	93.7	82.3	100.3	69.4	87.0	83.9	89.3	79.7	95.4	67.5	82.5	80.3	84.4	76.8	90.2	65.2
2040	75	87.32	68.6	96.2	50.1	108.8	23.5	83.1	66.4	91.5	48.6	103.8	35.6	78.4	63.9	86.4	46.8	98.3	34.2
2040	80	88.93	79.4	95.6	65.4	106.0	43.4	84.7	76.7	90.9	63.5	101.0	42.2	80.1	73.7	85.9	61.2	95.6	40.6
2040	85	91.38	87.1	95.8	77.8	104.1	60.4	87.2	84.0	91.2	75.4	99.1	58.7	82.6	80.6	86.2	72.7	93.7	56.7
2040	90	94.68	92.0	96.9	87.2	103.0	74.4	90.5	88.5	92.4	84.4	98.1	72.3	86.0	84.6	87.4	81.3	92.7	69.9
2380	75	89.93	72.7	98.3	54.3	110.5	27.9	85.6	70.3	93.5	52.6	105.3	39.4	80.8	67.6	88.3	50.6	99.7	37.9
2380	80	91.79	83.5	97.9	69.8	107.9	47.9	87.5	80.7	93.2	67.6	102.8	46.5	82.7	77.5	88.1	65.1	97.3	44.7
2380	85	94.50	91.4	98.5	82.2	106.2	65.0	90.2	88.1	93.8	79.6	101.2	63.1	85.5	84.5	88.6	76.8	95.6	60.9
2380	90	98.05	96.3	99.8	91.8	105.4	79.1	93.8	92.6	95.2	88.7	100.4	76.8	89.1	88.6	90.1	85.4	94.9	74.2
2720	75	92.23	76.4	100.1	58.2	111.8	31.9	87.7	73.8	95.2	56.3	106.5	43.0	82.8	70.9	89.9	54.1	100.8	41.3
2720	80	94.34	87.3	100.0	73.7	109.5	52.0	89.9	84.3	95.2	71.4	104.3	50.4	85.0	80.9	89.9	68.7	98.6	48.5
2720	85	97.30	95.3	100.8	86.3	108.1	69.2	92.9	91.8	96.0	83.5	102.9	67.1	88.0	88.1	90.7	80.4	97.3	64.8
2720	90	101.11	100.4	102.4	95.9	107.5	83.4	96.7	96.5	97.6	92.7	102.3	80.9	91.9	92.2	92.4	89.2	96.7	78.1
3060	75	94.21	79.8	101.6	61.7	112.8	47.8	89.6	77.0	96.6	59.6	107.5	46.2	84.6	73.8	91.2	57.2	101.6	44.3
3060	80	96.57	90.8	101.8	77.3	110.8	55.8	92.0	87.6	96.8	74.8	105.5	54.0	87.0	84.0	91.4	72.0	99.7	51.8
3060	85	99.79	98.9	102.8	90.0	109.6	73.1	95.3	95.2	97.9	87.0	104.3	70.8	90.3	91.2	92.5	83.8	98.6	68.2
3060	90	103.85	104.0	104.7	99.7	109.3	87.4	99.3	99.9	99.8	96.3	104.0	84.7	94.4	95.5	94.4	92.6	98.3	81.7
3400	75	95.88	82.8	102.8	64.9	113.6	50.8	91.2	79.8	97.7	62.6	108.0	49.1	86.0	76.4	92.1	60.0	102.1	47.0
3400	80	98.49	93.9	103.2	80.6	111.8	69.2	93.8	90.5	98.1	77.9	106.3	67.0	88.7	86.7	92.6	74.8	100.4	64.6
3400	85	101.96	102.1	104.5	93.4	110.9	76.6	97.3	98.2	99.4	90.2	105.4	74.1	92.2	94.0	94.0	86.7	99.5	71.4
3400	90	106.28	107.3	106.6	103.2	110.8	91.0	101.7	103.0	101.6	99.6	105.4	88.1	96.6	98.4	96.2	95.7	99.5	84.9
3740	75	97.23	85.4	103.7	67.7	114.0	53.6	92.4	82.2	98.4	65.2	108.3	51.7	87.1	78.7	92.8	62.4	102.3	49.4
3740	80	100.10	96.6	104.4	83.5	112.4	72.1	95.3	93.0	99.2	80.6	106.8	69.8	90.1	89.1	93.5	77.3	100.8	67.1
3740	85	103.82	104.9	105.9	96.4	111.8	79.7	99.0	100.9	100.7	93.0	106.2	77.1	93.9	96.5	95.1	89.3	100.2	74.1
3740	90	108.39	110.3	108.3	106.3	111.9	94.3	103.6	105.8	103.1	102.5	106.4	91.2	98.5	101.0	97.6	98.4	100.5	87.8
4080	75	98.27	87.7	104.2	70.1	114.1	56.0	93.3	84.3	98.9	67.4	108.3	53.9	87.9	80.6	93.1	64.4	102.1	51.5
4080	80	101.39	99.0	105.2	86.0	112.8	74.7	96.5	95.2	99.8	82.9	107.1	72.2	91.1	91.0	94.1	79.5	100.9	69.4
4080	85	105.36	107.4	106.9	99.0	112.4	82.5	100.5	103.1	101.7	95.4	106.7	79.7	95.2	98.6	95.9	91.6	100.6	76.5
4080	90	110.19	112.9	109.6	104.7	112.8	97.1	105.3	108.2	104.3	105.0	107.1	93.9	100.0	103.2	98.6	100.7	101.1	90.3

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Table 31. Gross cooling capacities 8½ tons high efficiency - three phase T/YHC102F3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
cfm	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
1700	75	70.8	57.2	78.9	40.6	90.8	16.0	65.4	54.2	73.1	38.3	84.6	14.4
1700	80	72.2	66.5	78.1	54.5	87.9	34.5	66.9	63.1	72.4	51.8	81.7	32.5
1700	85	74.5	72.9	78.2	65.5	85.8	50.1	69.2	69.0	72.5	62.4	79.7	47.6
1700	90	77.7	76.3	79.2	73.5	84.5	62.7	72.4	72.0	73.5	70.0	78.5	59.8
2040	75	73.3	61.0	81.0	44.6	92.4	20.1	67.8	57.8	75.1	42.1	86.1	18.4
2040	80	75.0	70.4	80.5	58.6	89.7	38.8	69.6	66.8	74.6	55.7	83.5	36.6
2040	85	77.6	76.9	80.8	69.7	87.9	54.4	72.1	72.9	75.0	66.4	81.7	51.8
2040	90	81.0	80.5	82.0	77.8	86.9	67.1	75.6	76.0	76.2	74.1	80.7	64.1
2380	75	75.6	64.5	82.7	48.3	93.7	23.9	69.9	61.1	76.7	45.6	87.3	22.0
2380	80	77.5	74.0	82.5	62.4	91.3	42.7	71.9	70.2	76.5	59.3	84.9	40.3
2380	85	80.3	80.6	83.1	73.5	89.7	58.4	74.8	76.4	77.2	70.0	83.4	55.6
2380	90	84.0	84.3	84.6	81.8	89.0	71.2	78.5	79.6	78.7	77.8	82.7	68.0
2720	75	77.5	67.6	84.2	51.5	94.7	27.4	71.8	64.1	78.1	48.7	88.2	25.2
2720	80	79.7	77.3	84.2	65.8	92.5	46.2	74.0	73.3	78.1	62.5	86.0	43.6
2720	85	82.8	83.9	85.1	77.0	91.2	62.1	77.1	79.5	79.0	73.3	84.7	59.0
2720	90	86.7	87.7	86.8	85.4	90.7	75.0	81.1	82.8	80.8	81.2	84.3	71.5
3060	75	79.1	70.4	85.3	54.5	95.4	30.5	73.3	66.6	79.1	51.4	88.7	28.1
3060	80	81.6	80.1	85.6	68.8	93.5	49.4	75.8	75.9	79.4	65.3	86.8	46.6
3060	85	84.9	86.9	86.7	80.2	92.4	65.3	79.1	82.3	80.5	76.2	85.8	62.1
3060	90	89.1	90.8	88.7	88.6	92.2	78.4	83.3	85.7	82.6	84.3	85.6	74.7
3400	75	80.4	72.8	86.2	57.0	95.8	44.7	74.5	68.9	79.8	53.8	89.0	30.7
3400	80	83.2	82.6	86.7	71.5	94.1	52.2	77.2	78.3	80.4	67.8	87.3	49.2
3400	85	86.7	89.5	88.1	82.9	93.3	68.3	80.8	84.7	81.8	78.8	86.5	64.9
3400	90	91.2	93.5	90.3	91.5	93.3	81.4	85.3	88.2	84.0	86.9	86.6	77.6
3740	75	81.4	74.9	86.7	59.2	95.8	46.9	75.3	70.7	80.2	55.8	88.9	32.8
3740	80	84.4	84.8	87.5	73.8	94.4	64.2	78.3	80.2	81.0	69.9	87.5	51.5
3740	85	88.2	91.8	89.1	85.3	93.8	70.8	82.2	86.8	82.7	81.0	87.0	67.2
3740	90	92.9	95.8	91.6	94.0	94.1	84.1	86.9	90.4	85.2	89.2	87.3	80.0
4080	75	82.1	76.6	86.9	61.1	95.5	48.8	75.9	72.2	80.3	57.5	88.5	34.6
4080	80	85.3	86.6	87.9	75.7	94.4	66.2	79.2	81.8	81.4	71.6	87.4	53.4
4080	85	89.4	93.7	89.8	87.4	94.0	73.0	83.3	88.5	83.3	82.9	87.1	69.3
4080	90	94.4	97.8	92.5	96.1	94.6	86.4	88.2	92.2	86.0	91.2	87.7	82.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.

2. MBh = Total Gross Capacity

3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Table 32. Gross cooling capacities 10 tons high efficiency - three phase T/YHC120E3,4,W

		Ambient Temperature																	
		85						95						105					
Air	Ent	Entering Wet Bulb																	
Flow	DB	61		67		73		61		67		73		61		67		73	
(cfm)	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2000	75	93.8	74.5	106.3	54.0	122.9	23.2	88.7	71.5	100.4	52.1	116.1	38.0	83.2	68.2	94.0	49.9	109.0	36.6
2000	80	95.7	83.6	106.1	68.9	120.6	43.8	90.6	80.1	100.2	66.4	113.9	42.5	85.2	76.2	94.0	63.7	106.8	40.9
2000	85	98.4	90.2	106.8	81.2	119.1	61.9	93.5	86.1	101.0	78.2	112.6	60.1	88.2	81.7	94.9	74.9	105.6	57.9
2000	90	102.1	94.2	108.4	91.0	118.7	77.4	97.3	89.5	102.7	87.4	112.2	75.0	92.1	84.6	96.7	83.6	105.4	72.3
2400	75	98.7	80.6	110.5	59.6	126.3	28.3	93.3	77.3	104.3	57.4	119.3	42.7	87.6	73.7	97.7	54.9	111.9	41.0
2400	80	100.9	90.6	110.7	75.3	124.4	49.8	95.7	86.7	104.6	72.6	117.5	48.2	90.1	82.6	98.1	69.6	110.3	46.3
2400	85	104.1	98.1	111.8	88.6	123.5	68.8	99.0	93.7	105.8	85.3	116.7	66.6	93.5	88.9	99.5	81.7	109.5	64.2
2400	90	108.3	103.0	113.8	99.2	123.5	85.2	103.2	98.0	107.9	95.4	116.8	82.5	97.8	92.8	101.7	91.3	109.7	79.5
2800	75	103.0	86.1	114.1	64.7	129.3	32.9	97.4	82.5	107.7	62.2	122.1	46.9	91.5	78.6	101.0	59.4	114.5	44.9
2800	80	105.8	97.1	114.8	81.3	127.9	55.3	100.3	92.9	108.5	78.3	120.8	53.4	94.4	88.4	101.8	75.0	113.3	51.2
2800	85	109.4	105.4	116.4	95.5	127.4	75.2	104.0	100.7	110.1	91.9	120.4	72.7	98.3	95.7	103.6	88.0	113.0	69.9
2800	90	114.0	111.3	118.9	107.0	127.8	92.5	108.7	106.0	112.7	102.9	120.9	89.5	103.0	100.4	106.3	98.4	113.6	86.2
3200	75	107.0	91.2	117.4	69.2	131.9	37.0	101.1	87.3	110.7	66.5	124.4	50.6	94.9	83.1	103.7	63.4	116.6	48.3
3200	80	110.1	103.0	118.5	86.8	130.9	60.3	104.4	98.6	111.9	83.5	123.5	58.1	98.3	93.8	105.0	79.8	115.8	55.6
3200	85	114.2	112.3	120.5	101.8	130.8	81.0	108.6	107.3	114.0	97.9	123.6	78.3	102.6	102.0	107.3	93.7	116.0	75.2
3200	90	119.2	119.0	123.4	114.3	131.7	99.3	113.7	113.5	117.1	109.9	124.5	95.9	107.9	107.6	110.4	105.1	117.0	92.3
3600	75	110.4	95.8	120.1	73.3	134.0	56.1	104.4	91.6	113.3	70.2	126.3	53.9	98.0	87.0	106.1	66.8	118.2	51.3
3600	80	114.0	108.5	121.7	91.8	133.4	64.7	108.1	103.7	114.9	88.1	125.8	62.2	101.8	98.7	107.8	84.2	117.9	59.4
3600	85	118.6	118.6	124.2	107.7	133.8	86.4	112.7	112.7	117.5	103.5	126.3	83.3	106.5	106.5	110.5	99.0	118.5	80.0
3600	90	124.1	124.1	127.6	121.0	135.1	105.5	118.3	118.3	121.0	116.3	127.7	101.9	112.2	112.2	114.1	111.2	120.0	98.0
4000	75	113.4	99.8	122.5	76.9	135.6	59.2	107.2	95.3	115.4	73.5	127.7	56.6	100.5	90.5	107.9	69.8	119.4	53.8
4000	80	117.5	113.4	124.5	96.2	135.5	81.6	111.3	108.4	117.5	92.3	127.7	78.6	104.8	103.0	110.1	88.0	119.5	75.2
4000	85	122.5	122.5	127.4	113.0	136.4	91.3	116.4	116.4	120.5	108.5	128.6	87.9	110.0	110.0	113.2	103.7	120.6	84.2
4000	90	128.4	128.4	131.2	127.3	138.1	111.3	122.4	122.4	124.4	122.3	130.5	107.4	116.1	116.1	117.3	116.9	122.5	103.1
4400	75	116.0	103.4	124.3	79.9	136.8	61.8	109.5	98.6	117.0	76.2	128.6	58.9	102.6	93.4	109.3	72.2	120.1	55.8
4400	80	120.5	117.9	126.8	100.2	137.1	85.1	114.1	112.5	119.6	95.9	129.1	81.8	107.3	106.8	112.0	91.4	120.7	78.1
4400	85	126.0	126.0	130.2	117.9	138.4	95.6	119.6	119.6	123.0	113.1	130.5	91.9	113.0	113.0	115.6	108.0	122.2	87.9
4400	90	132.3	132.3	134.4	133.0	140.6	116.5	126.1	126.1	127.4	127.4	132.8	112.3	119.6	119.6	120.0	120.0	124.6	107.7
4800	75	118.1	106.4	125.8	82.4	137.5	63.9	111.4	101.3	118.2	78.5	129.1	60.8	104.3	95.8	110.3	74.1	120.4	57.3
4800	80	123.1	121.8	128.7	103.6	138.3	88.1	116.4	116.1	121.2	99.1	130.1	84.5	109.4	109.4	113.4	94.2	121.4	81.1
4800	85	129.0	129.0	132.5	122.2	140.1	99.4	122.4	122.4	125.1	117.1	131.9	95.5	115.5	115.5	117.4	111.7	123.4	91.2
4800	90	135.8	135.8	137.2	128.3	142.7	121.2	129.3	129.3	130.0	130.0	134.7	116.7	122.6	122.6	122.4	122.4	126.2	111.9

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Table 32. Gross cooling capacities 10 tons high efficiency - three phase T/YHC120E3,4,W (continued)

		Ambient Temperature											
		115						125					
Air	Ent	Entering Wet Bulb											
Flow	DB	61		67		73		61		67		73	
(cfm)	(F)	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC	MBh	SHC
2000	75	77.4	64.5	87.4	47.4	101.5	20.0	71.1	60.6	80.3	44.6	93.6	18.3
2000	80	79.5	72.0	87.4	60.6	99.4	39.0	73.4	67.5	80.5	57.3	91.7	36.7
2000	85	82.5	76.9	88.4	71.3	98.3	55.4	76.5	71.9	81.6	67.4	90.7	52.6
2000	90	86.5	79.3	90.3	79.4	98.2	69.2	80.6	73.7	83.6	74.9	90.6	65.9
2400	75	81.5	69.7	90.8	52.1	104.2	24.2	75.1	65.4	83.6	49.0	96.2	22.2
2400	80	84.1	78.1	91.3	66.2	102.7	44.1	77.7	73.3	84.2	62.5	94.7	41.5
2400	85	87.6	83.9	92.8	77.8	102.0	61.4	81.4	78.5	85.7	73.5	94.1	58.2
2400	90	92.0	87.2	95.1	86.8	102.3	76.1	85.9	81.2	88.2	82.0	94.5	72.4
2800	75	85.2	74.4	93.8	56.3	106.5	27.9	78.5	69.8	86.3	52.8	98.3	25.6
2800	80	88.2	83.6	94.8	71.3	105.4	48.6	81.7	78.5	87.4	67.3	97.2	45.8
2800	85	92.2	90.4	96.7	83.7	105.2	66.8	85.7	84.7	89.4	79.2	97.1	63.4
2800	90	97.0	94.5	99.5	93.7	105.9	82.5	90.7	88.3	92.3	88.6	98.0	78.5
3200	75	88.4	78.5	96.4	59.9	108.4	31.0	81.5	73.7	88.7	56.2	99.9	28.4
3200	80	91.9	88.7	97.8	75.9	107.7	52.7	85.1	83.3	90.2	71.5	99.3	49.5
3200	85	96.3	96.3	100.1	89.2	108.0	71.8	89.6	89.6	92.6	84.4	99.7	68.1
3200	90	101.6	101.4	103.4	100.0	109.2	88.4	95.0	94.8	96.0	94.6	100.9	84.1
3600	75	91.2	82.2	98.5	63.1	109.8	33.7	84.1	77.0	90.5	59.0	101.1	30.8
3600	80	95.1	93.3	100.3	79.9	109.6	56.3	88.1	87.5	92.5	75.3	100.9	52.8
3600	85	100.0	100.0	103.1	94.2	110.3	76.3	93.1	93.1	95.4	89.0	101.7	72.2
3600	90	105.8	105.8	106.8	105.9	111.9	93.7	98.9	98.9	99.2	99.2	103.5	89.1
4000	75	93.5	85.3	100.1	65.7	110.8	50.6	86.2	79.9	92.0	61.4	101.8	32.6
4000	80	97.9	97.3	102.4	83.4	111.0	59.3	90.7	90.7	94.4	78.5	102.1	55.5
4000	85	103.2	103.2	105.6	98.6	112.1	80.2	96.1	96.1	97.7	93.1	103.4	75.9
4000	90	109.4	109.4	109.8	109.8	114.2	98.5	102.4	102.4	101.9	101.9	105.5	93.6
4400	75	95.4	88.0	101.3	67.9	111.3	52.4	87.8	82.2	92.9	63.2	102.1	33.9
4400	80	100.2	100.2	104.1	86.5	112.0	74.6	92.8	92.8	95.8	81.3	102.8	57.7
4400	85	106.0	106.0	107.7	102.5	113.5	83.6	98.6	98.6	99.5	96.8	104.5	79.0
4400	90	112.7	112.7	112.3	112.3	116.1	102.9	105.4	105.4	104.2	104.2	107.2	97.7
4800	75	96.8	90.1	102.0	69.5	111.3	53.6	89.0	84.0	93.4	64.5	101.9	34.8
4800	80	102.1	102.1	105.2	89.0	112.5	77.6	94.4	94.4	96.7	83.5	103.1	59.5
4800	85	108.3	108.3	109.4	105.9	114.5	86.5	100.7	100.7	101.0	99.9	105.3	81.6
4800	90	115.4	115.4	114.4	114.4	117.5	106.7	107.9	107.9	106.1	106.1	108.3	101.2

Notes:

1. All capacities shown are gross and have not considered indoor fan heat. To obtain **NET** cooling capacity subtract indoor fan heat. For indoor fan heat formula, refer to appropriate airflow table notes.
2. MBh = Total Gross Capacity
3. SHC = Sensible Heat Capacity

* Unit applications below 320 CFM/Ton are only applicable on THC models without electric heat. Electric and Gas heat applications are restricted to applications 320 CFM/Ton and above.

Direct Drive - Evaporator Fan Performance

Table 33. Multispeed direct drive evaporator fan performance 3 - 5 tons - standard efficiency - no electric heat TSC036, 048, 060E1

			External Static Pressure (Inches of Water) & Motor Power (Bhp)[a]														
			Standard Low Speed									Standard High Speed					
			Rated Speed Set 1			Speed Speed Set 2			Mid Speed Speed Set 3			Speed Speed Set 4			High Speed Speed Set 5		
Tons	Unit Model Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	TSC036E1 Downflow Airflow	960	0.45	715	0.21	0.74	851	0.31	0.92	929	0.38	1.07	993	0.44	1.25	1053	0.52
		1020	0.39	695	0.20	0.66	826	0.30	0.84	905	0.37	0.99	969	0.43	1.17	1030	0.50
		1080	0.33	675	0.20	0.59	800	0.29	0.77	880	0.36	0.91	945	0.42	1.08	1007	0.49
		1140	0.27	654	0.19	0.51	774	0.28	0.69	855	0.35	0.83	921	0.41	1.00	985	0.48
		1200	0.21	634	0.18	0.43	749	0.27	0.61	831	0.34	0.75	898	0.40	0.91	962	0.47
		1260	0.15	614	0.18	0.35	723	0.26	0.53	806	0.33	0.67	874	0.39	0.83	939	0.46
		1320	0.09	593	0.17	0.28	697	0.25	0.45	782	0.32	0.59	850	0.38	0.74	916	0.45
		1380	0.03	573	0.17	0.20	671	0.24	0.37	757	0.31	0.51	826	0.37	0.66	893	0.44
		1440	—	—	—	0.12	646	0.23	0.29	732	0.30	0.43	802	0.36	0.57	871	0.43
3	TSC036E1 Horizontal Airflow	960	0.45	711	0.21	0.70	835	0.30	0.89	913	0.37	1.04	978	0.44	1.21	1037	0.51
		1020	0.39	689	0.20	0.63	811	0.29	0.81	890	0.36	0.96	957	0.43	1.13	1016	0.50
		1080	0.32	667	0.19	0.56	787	0.28	0.73	868	0.35	0.88	935	0.42	1.04	996	0.49
		1140	0.26	644	0.19	0.48	763	0.28	0.65	845	0.34	0.80	913	0.41	0.95	975	0.48
		1200	0.20	622	0.18	0.41	739	0.27	0.57	823	0.33	0.72	892	0.40	0.87	955	0.47
		1260	0.13	599	0.17	0.33	715	0.26	0.50	800	0.32	0.64	870	0.39	0.78	934	0.46
		1320	0.07	577	0.17	0.26	691	0.25	0.42	777	0.32	0.56	848	0.38	0.69	913	0.45
		1380	0.01	555	0.16	0.18	667	0.24	0.34	755	0.31	0.48	826	0.37	0.61	893	0.44
		1440	—	—	—	0.11	642	0.23	0.26	732	0.30	0.40	805	0.36	0.52	872	0.43
4	TSC048E1 Downflow Airflow	1280	0.60	865	0.36	0.84	977	0.47	1.02	1044	0.55	1.17	1090	0.63	—	—	—
		1360	0.48	833	0.35	0.72	944	0.45	0.90	1012	0.54	1.04	1062	0.61	—	—	—
		1440	0.37	802	0.34	0.60	912	0.44	0.77	980	0.52	0.92	1033	0.60	—	—	—
		1520	0.25	770	0.32	0.48	879	0.42	0.65	948	0.50	0.80	1005	0.58	1.06	1100	0.69
		1600	0.14	739	0.31	0.36	846	0.41	0.52	915	0.49	0.68	976	0.56	0.92	1069	0.67
		1680	0.02	707	0.30	0.24	814	0.39	0.39	883	0.47	0.56	948	0.55	0.78	1038	0.65
		1760	—	—	—	0.13	781	0.38	0.27	851	0.45	0.43	920	0.53	0.64	1006	0.63
		1840	—	—	—	0.01	748	0.36	0.14	819	0.43	0.31	891	0.52	0.50	975	0.62
		1920	—	—	—	—	—	—	0.02	787	0.42	0.19	863	0.50	0.37	944	0.60
4	TSC048E1 Horizontal Airflow	1280	0.61	864	0.36	0.84	967	0.47	1.00	1038	0.55	1.16	1115	0.65	—	—	—
		1360	0.51	831	0.35	0.73	935	0.45	0.88	1006	0.53	1.05	1084	0.63	—	—	—
		1440	0.40	798	0.33	0.62	904	0.44	0.77	974	0.52	0.94	1052	0.61	1.10	1114	0.70
		1520	0.30	766	0.32	0.51	873	0.42	0.66	943	0.50	0.82	1020	0.59	0.99	1084	0.68
		1600	0.19	733	0.31	0.40	842	0.41	0.55	911	0.48	0.71	989	0.57	0.87	1054	0.66
		1680	0.09	701	0.29	0.29	810	0.39	0.44	879	0.47	0.60	957	0.55	0.75	1023	0.65
		1760	—	—	—	0.18	779	0.38	0.32	848	0.45	0.48	925	0.54	0.64	993	0.63
		1840	—	—	—	0.08	748	0.36	0.21	816	0.43	0.37	893	0.52	0.52	963	0.61
		1920	—	—	—	—	—	—	0.10	784	0.42	0.26	861	0.50	0.40	932	0.59
5	TSC060E1 Downflow Airflow	1600	0.75	1006	0.60	0.91	1065	0.69	—	—	—	—	—	—	—	—	—
		1700	0.60	969	0.58	0.75	1024	0.66	0.96	1101	0.77	—	—	—	—	—	—
		1800	0.45	933	0.56	0.58	982	0.63	0.78	1059	0.74	—	—	—	—	—	—
		1900	0.30	896	0.54	0.42	941	0.61	0.61	1017	0.71	0.82	1105	0.83	—	—	—
		2000	0.14	860	0.52	0.25	899	0.58	0.43	975	0.68	0.64	1062	0.80	0.70	1083	0.85
		2100	0.00	826	0.50	0.09	858	0.55	0.25	933	0.65	0.46	1019	0.77	0.54	1045	0.82
		2200	—	—	—	—	—	—	0.08	891	0.62	0.28	975	0.74	0.37	1007	0.79
		2300	—	—	—	—	—	—	—	—	—	0.10	932	0.70	0.20	969	0.76
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.03	931	0.73
5	TSC060E1 Horizontal Airflow	1600	0.73	1003	0.60	0.90	1075	0.69	—	—	—	—	—	—	—	—	—
		1700	0.60	968	0.58	0.74	1034	0.67	0.89	1104	0.77	—	—	—	—	—	—
		1800	0.46	934	0.56	0.59	993	0.64	0.74	1064	0.74	—	—	—	—	—	—
		1900	0.33	899	0.54	0.44	952	0.62	0.59	1023	0.71	0.75	1095	0.83	—	—	—
		2000	0.19	864	0.52	0.28	911	0.59	0.43	983	0.69	0.60	1053	0.79	0.69	1090	0.86
		2100	0.05	829	0.50	0.13	870	0.56	0.28	942	0.66	0.44	1012	0.76	0.53	1051	0.83
		2200	—	—	—	0.00	837	0.54	0.13	902	0.63	0.28	971	0.73	0.37	1012	0.80
		2300	—	—	—	—	—	—	0.00	868	0.61	0.12	930	0.70	0.21	972	0.77
		2400	—	—	—	—	—	—	—	—	—	0.00	897	0.68	0.06	933	0.74

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 34. Multispeed direct drive evaporator fan performance 3 - 5 tons - standard efficiency - low & medium gas heat YSC036, 048, 060E1

			External Static Pressure (Inches of Water) & Motor Power (bhp)[a]														
			Standard Low									Standard High					
			Rated Speed Set 1			Speed Speed Set 2			Mid Speed Speed Set 3			Speed Speed Set 4			High Speed Speed Set 5		
Tons	Unit Model Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036E1*L,M Downflow Airflow	960	0.43	718	0.19	0.64	825	0.27	0.88	923	0.35	1.12	1017	0.46	1.28	1074	0.52
		1020	0.37	696	0.18	0.57	800	0.26	0.80	900	0.35	1.04	997	0.45	1.20	1053	0.51
		1080	0.30	675	0.18	0.49	775	0.26	0.72	877	0.34	0.96	977	0.44	1.11	1033	0.50
		1140	0.24	654	0.17	0.42	749	0.25	0.64	854	0.33	0.87	957	0.43	1.03	1013	0.49
		1200	0.18	633	0.17	0.34	724	0.24	0.56	832	0.32	0.79	938	0.42	0.94	992	0.48
		1260	0.11	612	0.16	0.26	698	0.23	0.48	809	0.31	0.71	918	0.41	0.86	972	0.47
		1320	0.05	590	0.16	0.19	673	0.22	0.39	786	0.30	0.63	898	0.40	0.77	951	0.46
		1380	—	—	—	0.11	647	0.21	0.31	763	0.29	0.55	878	0.39	0.68	931	0.45
		1440	—	—	—	0.03	622	0.21	0.23	740	0.28	0.47	859	0.38	0.60	910	0.44
3	YSC036E1*L,M Horizontal Airflow	960	0.42	715	0.19	0.67	842	0.28	0.90	937	0.36	1.15	1037	0.46	1.25	1062	0.51
		1020	0.37	695	0.18	0.61	819	0.27	0.83	916	0.35	1.07	1014	0.45	1.18	1047	0.50
		1080	0.31	675	0.18	0.54	796	0.26	0.75	895	0.34	0.99	992	0.44	1.11	1032	0.50
		1140	0.26	654	0.17	0.47	772	0.26	0.68	874	0.34	0.91	970	0.43	1.04	1017	0.49
		1200	0.20	634	0.17	0.41	749	0.25	0.61	853	0.33	0.83	948	0.42	0.97	1002	0.48
		1260	0.14	614	0.16	0.34	725	0.24	0.54	832	0.32	0.75	926	0.41	0.90	987	0.48
		1320	0.09	594	0.16	0.27	702	0.23	0.47	811	0.31	0.67	903	0.40	0.83	972	0.47
		1380	0.03	574	0.15	0.20	678	0.22	0.40	789	0.30	0.59	881	0.39	0.76	957	0.46
		1440	—	—	—	0.14	654	0.22	0.33	768	0.29	0.51	859	0.38	0.69	942	0.45
4	YSC048E1*L,M Downflow Airflow	1280	0.71	933	0.42	0.89	1003	0.49	1.11	1094	0.59	—	—	—	—	—	—
		1360	0.59	903	0.41	0.76	973	0.48	0.97	1061	0.57	1.14	1116	0.64	—	—	—
		1440	0.47	874	0.39	0.63	943	0.46	0.84	1027	0.56	1.00	1085	0.62	—	—	—
		1520	0.34	845	0.38	0.50	913	0.45	0.70	993	0.54	0.86	1053	0.61	1.05	1122	0.70
		1600	0.22	815	0.37	0.38	883	0.43	0.56	959	0.52	0.72	1021	0.59	0.90	1089	0.68
		1680	0.10	786	0.36	0.25	852	0.42	0.42	926	0.50	0.58	990	0.57	0.76	1057	0.66
		1760	—	—	—	0.12	822	0.41	0.28	892	0.48	0.45	958	0.55	0.61	1024	0.64
		1840	—	—	—	—	—	—	0.15	858	0.46	0.31	926	0.53	0.47	992	0.62
		1920	—	—	—	—	—	—	0.01	824	0.45	0.17	895	0.51	0.32	960	0.60
4	YSC048E1*L,M Horizontal Airflow	1280	0.66	894	0.40	0.81	967	0.48	1.01	1051	0.57	1.14	1101	0.63	—	—	—
		1360	0.54	863	0.39	0.70	935	0.46	0.88	1016	0.55	1.01	1069	0.61	—	—	—
		1440	0.43	831	0.38	0.58	904	0.45	0.76	982	0.53	0.89	1037	0.60	1.05	1101	0.69
		1520	0.31	799	0.36	0.47	872	0.43	0.63	947	0.51	0.77	1006	0.58	0.93	1069	0.67
		1600	0.20	768	0.35	0.35	840	0.41	0.51	912	0.49	0.64	974	0.56	0.80	1037	0.65
		1680	0.08	736	0.33	0.24	809	0.40	0.38	877	0.47	0.52	942	0.54	0.67	1005	0.63
		1760	—	—	—	0.12	777	0.38	0.26	842	0.46	0.40	911	0.52	0.55	973	0.61
		1840	—	—	—	0.01	745	0.37	0.13	807	0.44	0.28	879	0.51	0.42	941	0.59
		1920	—	—	—	—	—	—	0.00	773	0.42	0.15	847	0.49	0.29	909	0.57
5	YSC060E1*L,M Downflow Airflow	1600	0.97	1110	0.71	—	—	—	—	—	—	—	—	—	—	—	—
		1700	0.79	1068	0.68	0.91	1120	0.77	—	—	—	—	—	—	—	—	—
		1800	0.60	1026	0.66	0.73	1079	0.74	—	—	—	—	—	—	—	—	—
		1900	0.42	984	0.63	0.54	1038	0.71	0.69	1093	0.78	—	—	—	—	—	—
		2000	0.24	942	0.60	0.36	997	0.68	0.50	1050	0.74	0.60	1079	0.82	—	—	—
		2100	0.06	900	0.57	0.18	956	0.65	0.31	1006	0.71	0.42	1040	0.79	0.52	1078	0.86
		2200	—	—	—	0.00	916	0.63	0.12	963	0.68	0.24	1001	0.76	0.32	1036	0.83
		2300	—	—	—	—	—	—	0.00	936	0.66	0.05	962	0.73	0.13	994	0.79
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.00	965	0.77
5	YSC060E1*L,M Horizontal Airflow	1600	0.83	1054	0.67	—	—	—	—	—	—	—	—	—	—	—	—
		1700	0.67	1013	0.65	0.83	1084	0.74	—	—	—	—	—	—	—	—	—
		1800	0.51	971	0.62	0.65	1039	0.71	0.75	1075	0.76	—	—	—	—	—	—
		1900	0.36	930	0.59	0.48	995	0.68	0.57	1031	0.73	0.72	1086	0.82	—	—	—
		2000	0.20	888	0.57	0.30	951	0.65	0.39	987	0.70	0.54	1045	0.79	0.67	1092	0.87
		2100	0.04	847	0.54	0.12	907	0.62	0.21	942	0.67	0.36	1004	0.76	0.48	1051	0.84
		2200	—	—	—	0.00	877	0.60	0.02	898	0.64	0.17	963	0.73	0.29	1010	0.81
		2300	—	—	—	—	—	—	—	—	—	0.00	924	0.70	0.10	968	0.77
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.00	946	0.76

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Table 35. Multispeed direct drive evaporator fan performance 3 - 5 tons - standard efficiency - high heat YSC036, 048, 060E1

			External Static Pressure (Inches of Water) & Motor Power (bhp)[a]														
			Standard Low Speed						Standard High Speed								
			Rated Speed Set 1			Speed Set 2			Mid Speed Speed Set 3			Speed Speed Set 4			High Speed Speed Set 5		
Tons	Unit Model Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YSC036E1*H Downflow Airflow	960	0.43	718	0.19	0.64	825	0.26	0.88	923	0.34	1.12	1017	0.44	1.28	1074	0.51
		1020	0.37	696	0.19	0.57	800	0.26	0.80	900	0.34	1.04	997	0.43	1.20	1053	0.50
		1080	0.30	675	0.18	0.49	775	0.25	0.72	877	0.33	0.96	977	0.42	1.11	1033	0.49
		1140	0.24	654	0.18	0.42	749	0.24	0.64	854	0.32	0.87	957	0.42	1.03	1013	0.48
		1200	0.18	633	0.17	0.34	724	0.23	0.56	832	0.31	0.79	938	0.41	0.94	992	0.47
		1260	0.11	612	0.16	0.26	698	0.22	0.48	809	0.30	0.71	918	0.40	0.86	972	0.46
		1320	0.05	590	0.16	0.19	673	0.21	0.39	786	0.29	0.63	898	0.39	0.77	951	0.45
		1380	—	—	—	0.11	647	0.21	0.31	763	0.28	0.55	878	0.38	0.68	931	0.44
		1440	—	—	—	0.03	622	0.20	0.23	740	0.28	0.47	859	0.37	0.60	910	0.43
3	YSC036E1*H Horizontal Airflow	960	0.44	732	0.20	0.65	836	0.27	0.87	935	0.35	1.12	1033	0.45	1.25	1078	0.51
		1020	0.37	708	0.19	0.58	811	0.26	0.80	911	0.34	1.03	1010	0.44	1.17	1059	0.50
		1080	0.31	684	0.18	0.51	787	0.25	0.72	886	0.33	0.95	987	0.43	1.09	1040	0.49
		1140	0.24	660	0.18	0.43	762	0.24	0.64	862	0.32	0.87	964	0.42	1.01	1021	0.48
		1200	0.18	636	0.17	0.36	737	0.24	0.56	838	0.31	0.79	941	0.41	0.93	1002	0.47
		1260	0.11	612	0.16	0.29	712	0.23	0.48	814	0.30	0.70	918	0.40	0.85	983	0.47
		1320	0.05	588	0.16	0.21	688	0.22	0.40	789	0.29	0.62	895	0.39	0.77	964	0.46
		1380	—	—	—	0.14	663	0.21	0.32	765	0.28	0.54	872	0.38	0.69	945	0.45
		1440	—	—	—	0.07	638	0.20	0.24	741	0.28	0.45	849	0.37	0.61	926	0.44
4	YSC048E1*H Downflow Airflow	1280	0.73	951	0.44	0.93	1025	0.52	1.10	1084	0.60	—	—	—	—	—	—
		1360	0.61	917	0.42	0.80	991	0.50	0.96	1051	0.58	1.14	1116	0.67	—	—	—
		1440	0.48	883	0.41	0.66	957	0.49	0.82	1019	0.56	1.00	1085	0.65	—	—	—
		1520	0.35	849	0.39	0.53	923	0.47	0.69	986	0.55	0.86	1053	0.63	—	—	—
		1600	0.23	816	0.38	0.39	888	0.45	0.55	954	0.53	0.72	1021	0.61	0.91	1093	0.71
		1680	0.10	782	0.36	0.26	854	0.43	0.42	922	0.51	0.58	990	0.59	0.76	1060	0.68
		1760	—	—	—	0.12	820	0.42	0.28	889	0.49	0.45	958	0.57	0.62	1028	0.66
		1840	—	—	—	—	—	—	0.14	857	0.47	0.31	926	0.55	0.47	995	0.64
		1920	—	—	—	—	—	—	0.01	824	0.46	0.17	895	0.53	0.32	962	0.62
4	YSC048E1*H Horizontal Airflow	1280	0.69	933	0.43	0.86	1005	0.51	1.04	1075	0.59	1.18	1124	0.67	—	—	—
		1360	0.57	899	0.42	0.74	971	0.49	0.91	1041	0.57	1.05	1091	0.65	—	—	—
		1440	0.45	865	0.40	0.61	938	0.48	0.78	1006	0.56	0.92	1059	0.63	—	—	—
		1520	0.33	831	0.38	0.49	904	0.46	0.65	972	0.54	0.79	1026	0.61	0.95	1091	0.70
		1600	0.21	797	0.37	0.36	870	0.44	0.52	938	0.52	0.65	993	0.59	0.82	1060	0.68
		1680	0.08	764	0.35	0.24	837	0.42	0.38	904	0.50	0.52	961	0.57	0.69	1030	0.66
		1760	—	—	—	0.11	803	0.41	0.25	870	0.48	0.39	928	0.55	0.55	999	0.65
		1840	—	—	—	—	—	—	0.12	835	0.46	0.26	896	0.54	0.42	968	0.63
		1920	—	—	—	—	—	—	—	—	—	0.12	863	0.52	0.29	937	0.61
5	YSC060E1*H Downflow Airflow	1600	0.97	1110	0.73	—	—	—	—	—	—	—	—	—	—	—	—
		1700	0.79	1068	0.70	0.91	1120	0.78	—	—	—	—	—	—	—	—	—
		1800	0.60	1026	0.67	0.73	1079	0.75	—	—	—	—	—	—	—	—	—
		1900	0.42	984	0.65	0.54	1038	0.72	0.69	1093	0.81	—	—	—	—	—	—
		2000	0.24	942	0.62	0.36	997	0.69	0.50	1050	0.78	0.60	1079	0.84	—	—	—
		2100	0.06	900	0.59	0.18	956	0.66	0.31	1006	0.74	0.42	1040	0.81	0.52	1078	0.86
		2200	—	—	—	0.00	916	0.64	0.12	963	0.71	0.24	1001	0.78	0.32	1036	0.83
		2300	—	—	—	—	—	—	0.00	936	0.69	0.05	962	0.75	0.13	994	0.79
		2400	—	—	—	—	—	—	—	—	—	—	—	—	0.00	965	0.77
5	YSC060E1*H Horizontal Airflow	1600	0.95	1110	0.73	—	—	—	—	—	—	—	—	—	—	—	—
		1700	0.76	1064	0.70	0.87	1110	0.77	—	—	—	—	—	—	—	—	—
		1800	0.58	1019	0.67	0.69	1067	0.74	—	—	—	—	—	—	—	—	—
		1900	0.40	973	0.64	0.51	1024	0.71	0.64	1075	0.79	—	—	—	—	—	—
		2000	0.21	927	0.61	0.32	982	0.68	0.45	1033	0.76	0.55	1069	0.83	0.64	1103	0.88
		2100	0.03	882	0.58	0.14	939	0.65	0.26	991	0.73	0.37	1029	0.80	0.45	1060	0.85
		2200	—	—	—	0.00	907	0.63	0.08	949	0.70	0.18	989	0.77	0.26	1017	0.81
		2300	—	—	—	—	—	—	—	—	—	0.00	949	0.74	0.07	975	0.78
		2400	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 36. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - no electric heat THC036E1,3,4,W / THC048 and THC060E3,4W / THC048F and THC060F1,3,4W

			External Static Pressure (Inches of Water) & Motor Power (bhp)[a]														
			Standard Low									Standard High					
			Rated Speed Set 1			Speed Speed Set 2			Mid Speed Speed Set 3			Speed Speed Set 4			High Speed Speed Set 5		
Tons	Unit Model Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	THC036E1,3,4,W Downflow Airflow	960	0.45	715	0.21	0.74	851	0.31	0.92	929	0.38	1.07	993	0.44	1.25	1053	0.52
		1020	0.39	695	0.20	0.66	826	0.30	0.84	905	0.37	0.99	969	0.43	1.17	1030	0.50
		1080	0.33	675	0.20	0.59	800	0.29	0.77	880	0.36	0.91	945	0.42	1.08	1007	0.49
		1140	0.27	654	0.19	0.51	774	0.28	0.69	855	0.35	0.83	921	0.41	1.00	985	0.48
		1200	0.21	634	0.18	0.43	749	0.27	0.61	831	0.34	0.75	898	0.40	0.91	962	0.47
		1260	0.15	614	0.18	0.35	723	0.26	0.53	806	0.33	0.67	874	0.39	0.83	939	0.46
		1320	0.09	593	0.17	0.28	697	0.25	0.45	782	0.32	0.59	850	0.38	0.74	916	0.45
		1380	0.03	573	0.17	0.20	671	0.24	0.37	757	0.31	0.51	826	0.37	0.66	893	0.44
		1440	—	—	—	0.12	646	0.23	0.29	732	0.30	0.43	802	0.36	0.57	871	0.43
3	THC036E1,3,4,W Horizontal Airflow	960	0.45	711	0.21	0.70	835	0.30	0.89	913	0.37	1.04	978	0.44	1.21	1037	0.51
		1020	0.39	689	0.20	0.63	811	0.29	0.81	890	0.36	0.96	957	0.43	1.13	1016	0.50
		1080	0.32	667	0.19	0.56	787	0.28	0.73	868	0.35	0.88	935	0.42	1.04	996	0.49
		1140	0.26	644	0.19	0.48	763	0.28	0.65	845	0.34	0.80	913	0.41	0.95	975	0.48
		1200	0.20	622	0.18	0.41	739	0.27	0.57	823	0.33	0.72	892	0.40	0.87	955	0.47
		1260	0.13	599	0.17	0.33	715	0.26	0.50	800	0.32	0.64	870	0.39	0.78	934	0.46
		1320	0.07	577	0.17	0.26	691	0.25	0.42	777	0.32	0.56	848	0.38	0.69	913	0.45
		1380	0.01	555	0.16	0.18	667	0.24	0.34	755	0.31	0.48	826	0.37	0.61	893	0.44
		1440	—	—	—	0.11	642	0.23	0.26	732	0.30	0.40	805	0.36	0.52	872	0.43
4	THC048E3,4,W/ THC048F1,3,4,W Downflow Airflow	1280	0.65	805	0.31	0.86	902	0.40	1.04	966	0.48	1.27	1042	0.58	—	—	—
		1360	0.55	769	0.30	0.76	866	0.38	0.94	934	0.46	1.17	1010	0.56	1.43	1113	0.68
		1440	0.46	733	0.28	0.66	830	0.37	0.84	902	0.44	1.06	977	0.54	1.31	1078	0.66
		1520	0.36	696	0.27	0.56	794	0.35	0.74	869	0.43	0.95	944	0.52	1.20	1043	0.64
		1600	0.27	660	0.25	0.46	758	0.33	0.63	837	0.41	0.85	912	0.50	1.08	1009	0.62
		1680	0.17	624	0.24	0.36	722	0.32	0.53	805	0.40	0.74	879	0.49	0.97	974	0.60
		1760	—	—	—	0.26	686	0.30	0.43	772	0.38	0.63	847	0.47	0.85	939	0.58
		1840	—	—	—	0.16	650	0.29	0.33	740	0.36	0.53	814	0.45	0.74	905	0.55
		1920	—	—	—	0.06	614	0.27	0.23	707	0.35	0.42	782	0.43	0.62	870	0.53
4	THC048E3,4,W/ THC048F1,3,4,W Horizontal Airflow	1280	0.56	795	0.31	0.77	880	0.39	0.95	967	0.48	1.16	1040	0.57	—	—	—
		1360	0.48	760	0.29	0.67	847	0.37	0.86	935	0.46	1.06	1010	0.56	1.26	1105	0.68
		1440	0.39	725	0.28	0.58	814	0.36	0.76	903	0.44	0.96	980	0.54	1.16	1075	0.66
		1520	0.30	690	0.27	0.48	780	0.34	0.66	871	0.43	0.86	951	0.53	1.06	1045	0.64
		1600	0.22	655	0.25	0.39	747	0.33	0.57	838	0.41	0.76	921	0.51	0.96	1016	0.62
		1680	0.13	619	0.24	0.30	714	0.31	0.47	806	0.40	0.66	891	0.49	0.86	986	0.60
		1760	—	—	—	0.20	681	0.30	0.37	774	0.38	0.56	861	0.48	0.76	956	0.59
		1840	—	—	—	0.11	647	0.29	0.28	742	0.37	0.46	831	0.46	0.66	926	0.57
		1920	—	—	—	0.01	614	0.27	0.18	710	0.35	0.36	802	0.44	0.56	896	0.55
5	THC060E3,4,W/ THC060F1,3,4,W Downflow Airflow	1600	0.82	918	0.50	1.04	1002	0.60	1.26	1087	0.72	—	—	—	—	—	—
		1700	0.67	873	0.47	0.89	957	0.58	1.11	1043	0.69	—	—	—	—	—	—
		1800	0.53	828	0.45	0.74	913	0.55	0.96	1000	0.66	1.16	1083	0.78	—	—	—
		1900	0.39	782	0.42	0.59	869	0.52	0.82	957	0.63	1.02	1041	0.75	1.17	1099	0.85
		2000	0.25	737	0.40	0.45	824	0.50	0.67	914	0.60	0.87	999	0.72	1.02	1056	0.82
		2100	0.11	692	0.37	0.30	780	0.47	0.52	870	0.58	0.72	957	0.69	0.87	1014	0.78
		2200	—	—	—	0.15	735	0.44	0.37	827	0.55	0.57	914	0.66	0.71	971	0.75
		2300	—	—	—	0.00	691	0.42	0.22	784	0.52	0.42	872	0.63	0.56	929	0.72
		2400	—	—	—	—	—	—	0.07	741	0.49	0.27	830	0.60	0.41	886	0.68
5	THC060E3,4,W/ THC060F1,3,4,W Horizontal Airflow	1600	0.71	918	0.50	0.91	1001	0.60	1.09	1070	0.71	—	—	—	—	—	—
		1700	0.59	875	0.47	0.78	959	0.58	0.96	1029	0.68	1.11	1102	0.79	—	—	—
		1800	0.46	832	0.45	0.65	916	0.55	0.82	987	0.65	0.97	1063	0.77	—	—	—
		1900	0.33	788	0.43	0.51	874	0.53	0.68	945	0.62	0.84	1023	0.74	1.01	1093	0.85
		2000	0.21	745	0.40	0.38	831	0.50	0.54	903	0.60	0.71	984	0.71	0.87	1052	0.81
		2100	0.08	701	0.38	0.25	788	0.47	0.41	861	0.57	0.57	944	0.68	0.73	1010	0.78
		2200	—	—	—	0.12	746	0.45	0.27	819	0.54	0.44	904	0.65	0.59	968	0.75
		2300	—	—	—	—	—	—	0.13	778	0.51	0.31	865	0.62	0.45	926	0.72
		2400	—	—	—	—	—	—	—	—	—	0.17	825	0.59	0.31	884	0.68

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.
For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Table 37. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - low & medium gas heat YHC036E1,3,4,W / YHC048 and 060E3,4,W / YHC048F and YHC060F1,3,4,W

			External Static Pressure (Inches of Water) & Motor Power (bhp)[a]														
			Standard Low									Standard High					
			Rated			Speed			Mid Speed			Speed			High Speed		
	Unit Model		Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
Tons	Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
		960	0.43	718	0.19	0.64	825	0.27	0.88	923	0.35	1.12	1017	0.46	1.28	1074	0.52
		1020	0.37	696	0.18	0.57	800	0.26	0.80	900	0.35	1.04	997	0.45	1.20	1053	0.51
		1080	0.30	675	0.18	0.49	775	0.26	0.72	877	0.34	0.96	977	0.44	1.11	1033	0.50
3	YHC036E1,3,4,W*L,M	1140	0.24	654	0.17	0.42	749	0.25	0.64	854	0.33	0.87	957	0.43	1.03	1013	0.49
	Downflow	1200	0.18	633	0.17	0.34	724	0.24	0.56	832	0.32	0.79	938	0.42	0.94	992	0.48
	Airflow	1260	0.11	612	0.16	0.26	698	0.23	0.48	809	0.31	0.71	918	0.41	0.86	972	0.47
		1320	0.05	590	0.16	0.19	673	0.22	0.39	786	0.30	0.63	898	0.40	0.77	951	0.46
		1380	—	—	—	0.11	647	0.21	0.31	763	0.29	0.55	878	0.39	0.68	931	0.45
		1440	—	—	—	0.03	622	0.21	0.23	740	0.28	0.47	859	0.38	0.60	910	0.44
		960	0.42	715	0.19	0.67	842	0.28	0.90	937	0.36	1.15	1037	0.46	1.25	1062	0.51
		1020	0.37	695	0.18	0.61	819	0.27	0.83	916	0.35	1.07	1014	0.45	1.18	1047	0.50
		1080	0.31	675	0.18	0.54	796	0.26	0.75	895	0.34	0.99	992	0.44	1.11	1032	0.50
3	YHC036E1,3,4,W*L,M	1140	0.26	654	0.17	0.47	772	0.26	0.68	874	0.34	0.91	970	0.43	1.04	1017	0.49
	Horizontal	1200	0.20	634	0.17	0.41	749	0.25	0.61	853	0.33	0.83	948	0.42	0.97	1002	0.48
	Airflow	1260	0.14	614	0.16	0.34	725	0.24	0.54	832	0.32	0.75	926	0.41	0.90	987	0.48
		1320	0.09	594	0.16	0.27	702	0.23	0.47	811	0.31	0.67	903	0.40	0.83	972	0.47
		1380	0.03	574	0.15	0.20	678	0.22	0.40	789	0.30	0.59	881	0.39	0.76	957	0.46
		1440	—	—	—	0.14	654	0.22	0.33	768	0.29	0.51	859	0.38	0.69	942	0.45
		1280	0.69	820	0.33	0.88	903	0.41	1.07	969	0.49	1.07	969	0.49	1.27	1039	0.58
		1360	0.59	785	0.32	0.78	869	0.40	0.96	936	0.48	0.96	936	0.48	1.16	1007	0.56
		1440	0.49	750	0.30	0.68	835	0.38	0.86	903	0.46	0.86	903	0.46	1.05	976	0.55
4	YHC048***L,M	1520	0.40	714	0.29	0.58	801	0.37	0.75	870	0.44	0.75	870	0.44	0.94	944	0.53
	Downflow	1600	0.30	679	0.27	0.48	767	0.35	0.65	837	0.42	0.65	837	0.42	0.84	912	0.51
	Airflow	1680	0.20	643	0.26	0.38	733	0.34	0.54	804	0.41	0.54	804	0.41	0.73	881	0.49
		1760	0.10	608	0.25	0.28	699	0.32	0.44	771	0.39	0.44	771	0.39	0.62	849	0.48
		1840	0.01	572	0.23	0.18	666	0.31	0.33	738	0.37	0.33	738	0.37	0.51	817	0.46
		1920	—	—	—	0.08	632	0.29	0.23	705	0.36	0.23	705	0.36	0.41	786	0.44
		1280	0.61	813	0.33	0.81	896	0.41	1.00	977	0.50	1.00	977	0.50	1.17	1044	0.58
		1360	0.51	777	0.31	0.70	862	0.40	0.89	944	0.48	0.89	944	0.48	1.06	1011	0.57
		1440	0.42	742	0.30	0.60	828	0.38	0.79	911	0.46	0.79	911	0.46	0.95	979	0.55
4	YHC048***L,M	1520	0.32	707	0.28	0.50	794	0.36	0.68	878	0.45	0.68	878	0.45	0.84	946	0.53
	Horizontal	1600	0.22	671	0.27	0.40	760	0.35	0.57	845	0.43	0.57	845	0.43	0.73	913	0.51
	Airflow	1680	0.13	636	0.26	0.29	725	0.33	0.46	812	0.41	0.46	812	0.41	0.62	881	0.49
		1760	0.03	600	0.24	0.19	691	0.32	0.36	779	0.40	0.36	779	0.40	0.51	848	0.47
		1840	—	—	—	0.09	657	0.30	0.25	746	0.38	0.25	746	0.38	0.40	815	0.46
		1920	—	—	—	—	—	—	0.14	713	0.36	0.14	713	0.36	0.29	783	0.44
		1600	0.90	962	0.55	1.07	1027	0.64	1.28	1099	0.75	—	—	—	—	—	—
		1700	0.76	919	0.53	0.93	985	0.61	1.14	1060	0.72	—	—	—	—	—	—
		1800	0.62	875	0.50	0.78	943	0.59	0.99	1022	0.70	1.15	1092	0.81	—	—	—
5	YHC060***L,M	1900	0.48	832	0.48	0.64	900	0.56	0.84	984	0.67	1.00	1051	0.78	1.18	1116	0.89
	Downflow	2000	0.34	788	0.45	0.49	858	0.53	0.70	945	0.65	0.86	1010	0.75	1.03	1076	0.86
	Airflow	2100	0.20	745	0.43	0.35	815	0.51	0.55	907	0.62	0.71	969	0.72	0.88	1037	0.83
		2200	0.06	701	0.40	0.20	773	0.48	0.41	868	0.59	0.56	928	0.69	0.73	997	0.80
		2300	—	—	—	0.06	730	0.46	0.26	830	0.57	0.41	887	0.66	0.58	958	0.77
		2400	—	—	—	—	—	—	0.12	792	0.54	0.26	846	0.63	0.43	918	0.73
		1600	0.75	944	0.54	0.91	1010	0.63	1.10	1094	0.75	—	—	—	—	—	—
		1700	0.61	899	0.52	0.77	969	0.60	0.96	1052	0.72	1.12	1114	0.82	—	—	—
		1800	0.48	855	0.49	0.63	927	0.58	0.82	1011	0.69	0.97	1074	0.79	—	—	—
5	YHC060***L,M	1900	0.34	811	0.47	0.49	885	0.55	0.67	969	0.66	0.83	1035	0.76	1.01	1111	0.89
	Horizontal	2000	0.20	766	0.44	0.35	843	0.53	0.53	928	0.63	0.68	995	0.74	0.87	1070	0.85
	Airflow	2100	0.07	722	0.42	0.21	801	0.50	0.39	887	0.61	0.54	956	0.71	0.72	1028	0.82
		2200	—	—	—	0.07	759	0.47	0.25	845	0.58	0.39	916	0.68	0.57	987	0.79
		2300	—	—	—	—	—	—	0.10	804	0.55	0.25	877	0.65	0.42	945	0.76
		2400	—	—	—	—	—	—	—	—	—	0.10	837	0.62	0.27	904	0.72

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16.
For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Direct Drive - Evaporator Fan Performance

Table 38. Multispeed direct drive evaporator fan performance 3 - 5 tons - high efficiency - high heat YHC036E1,3,4,W / YHC048 and 060E3,4,W / YHC048F and YHC060F1,3,4,W

			External Static Pressure (Inches of Water) & Motor Power (bhp)[a]														
			Standard Low									Standard High					
			Rated			Speed			Mid Speed			Speed			High Speed		
	Unit Model		Speed Set 1			Speed Set 2			Speed Set 3			Speed Set 4			Speed Set 5		
Tons	Number	cfm	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp	ESP	rpm	bhp
3	YHC036E1,3,4,W*H Downflow Airflow	960	0.43	718	0.19	0.64	825	0.26	0.88	923	0.34	1.12	1017	0.44	1.28	1074	0.51
		1020	0.37	696	0.19	0.57	800	0.26	0.80	900	0.34	1.04	997	0.43	1.20	1053	0.50
		1080	0.30	675	0.18	0.49	775	0.25	0.72	877	0.33	0.96	977	0.42	1.11	1033	0.49
		1140	0.24	654	0.18	0.42	749	0.24	0.64	854	0.32	0.87	957	0.42	1.03	1013	0.48
		1200	0.18	633	0.17	0.34	724	0.23	0.56	832	0.31	0.79	938	0.41	0.94	992	0.47
		1260	0.11	612	0.16	0.26	698	0.22	0.48	809	0.30	0.71	918	0.40	0.86	972	0.46
		1320	0.05	590	0.16	0.19	673	0.21	0.39	786	0.29	0.63	898	0.39	0.77	951	0.45
		1380	—	—	—	0.11	647	0.21	0.31	763	0.28	0.55	878	0.38	0.68	931	0.44
		1440	—	—	—	0.03	622	0.20	0.23	740	0.28	0.47	859	0.37	0.60	910	0.43
3	YHC036E1,3,4,W*H Horizontal Airflow	960	0.44	732	0.20	0.65	836	0.27	0.87	935	0.35	1.12	1033	0.45	1.25	1078	0.51
		1020	0.37	708	0.19	0.58	811	0.26	0.80	911	0.34	1.03	1010	0.44	1.17	1059	0.50
		1080	0.31	684	0.18	0.51	787	0.25	0.72	886	0.33	0.95	987	0.43	1.09	1040	0.49
		1140	0.24	660	0.18	0.43	762	0.24	0.64	862	0.32	0.87	964	0.42	1.01	1021	0.48
		1200	0.18	636	0.17	0.36	737	0.24	0.56	838	0.31	0.79	941	0.41	0.93	1002	0.47
		1260	0.11	612	0.16	0.29	712	0.23	0.48	814	0.30	0.70	918	0.40	0.85	983	0.47
		1320	0.05	588	0.16	0.21	688	0.22	0.40	789	0.29	0.62	895	0.39	0.77	964	0.46
		1380	—	—	—	0.14	663	0.21	0.32	765	0.28	0.54	872	0.38	0.69	945	0.45
		1440	—	—	—	0.07	638	0.20	0.24	741	0.28	0.45	849	0.37	0.61	926	0.44
4	YHC048***H Downflow Airflow	1280	0.69	833	0.35	0.90	924	0.43	1.07	989	0.51	1.07	989	0.51	1.27	1066	0.61
		1360	0.60	796	0.33	0.80	889	0.42	0.97	956	0.50	0.97	956	0.50	1.17	1033	0.59
		1440	0.50	759	0.32	0.71	855	0.40	0.87	922	0.48	0.87	922	0.48	1.06	1000	0.57
		1520	0.40	722	0.30	0.61	820	0.39	0.77	889	0.46	0.77	889	0.46	0.96	966	0.56
		1600	0.31	684	0.29	0.51	785	0.37	0.67	855	0.44	0.67	855	0.44	0.85	933	0.54
		1680	0.21	647	0.27	0.41	751	0.35	0.57	822	0.43	0.57	822	0.43	0.75	900	0.52
		1760	0.12	610	0.26	0.31	716	0.34	0.47	788	0.41	0.47	788	0.41	0.64	867	0.50
		1840	—	—	—	0.22	681	0.32	0.37	755	0.39	0.37	755	0.39	0.54	834	0.48
		1920	—	—	—	0.12	647	0.30	0.27	721	0.37	0.27	721	0.37	0.43	801	0.46
4	YHC048***H Horizontal Airflow	1280	0.60	822	0.34	0.81	912	0.43	0.97	986	0.51	0.97	986	0.51	1.18	1063	0.61
		1360	0.51	787	0.33	0.70	876	0.41	0.87	952	0.49	0.87	952	0.49	1.07	1031	0.59
		1440	0.41	752	0.31	0.60	840	0.40	0.76	918	0.48	0.76	918	0.48	0.96	998	0.57
		1520	0.31	718	0.30	0.49	805	0.38	0.66	885	0.46	0.66	885	0.46	0.84	966	0.56
		1600	0.22	683	0.29	0.38	769	0.36	0.55	851	0.44	0.55	851	0.44	0.73	933	0.54
		1680	0.12	648	0.27	0.28	733	0.34	0.45	818	0.42	0.45	818	0.42	0.62	901	0.52
		1760	0.03	613	0.26	0.17	697	0.33	0.34	784	0.41	0.34	784	0.41	0.51	868	0.50
		1840	—	—	—	0.07	661	0.31	0.23	750	0.39	0.23	750	0.39	0.40	836	0.48
		1920	—	—	—	—	—	—	0.13	717	0.37	0.13	717	0.37	0.29	803	0.46
5	YHC060***H Downflow Airflow	1600	0.90	955	0.57	1.06	1022	0.66	1.25	1095	0.77	—	—	—	—	—	—
		1700	0.76	910	0.54	0.92	977	0.63	1.11	1052	0.74	1.28	1113	0.85	—	—	—
		1800	0.62	865	0.52	0.77	932	0.60	0.96	1009	0.71	1.13	1072	0.82	—	—	—
		1900	0.47	819	0.49	0.63	888	0.57	0.82	966	0.68	0.98	1031	0.79	1.18	1105	0.91
		2000	0.33	774	0.46	0.49	843	0.54	0.67	922	0.65	0.83	990	0.75	1.02	1062	0.87
		2100	0.19	729	0.44	0.34	798	0.52	0.52	879	0.62	0.68	949	0.72	0.87	1019	0.84
		2200	0.04	683	0.41	0.20	754	0.49	0.38	836	0.59	0.54	908	0.69	0.71	976	0.80
		2300	—	—	—	0.05	709	0.46	0.23	793	0.56	0.39	867	0.66	0.55	933	0.77
		2400	—	—	—	—	—	—	0.09	750	0.53	0.24	826	0.63	0.40	890	0.73
5	YHC060***H Horizontal Airflow	1600	0.77	948	0.57	0.95	1016	0.66	1.10	1093	0.77	—	—	—	—	—	—
		1700	0.63	903	0.54	0.80	973	0.63	0.96	1052	0.74	—	—	—	—	—	—
		1800	0.48	859	0.51	0.66	930	0.60	0.81	1012	0.71	1.00	1084	0.83	—	—	—
		1900	0.34	814	0.49	0.51	888	0.57	0.67	971	0.68	0.85	1042	0.79	1.01	1106	0.91
		2000	0.20	770	0.46	0.36	845	0.55	0.52	931	0.65	0.70	1000	0.76	0.86	1063	0.87
		2100	0.06	725	0.43	0.22	803	0.52	0.38	890	0.62	0.55	959	0.73	0.70	1021	0.84
		2200	—	—	—	0.07	760	0.49	0.23	850	0.60	0.39	917	0.70	0.54	979	0.80
		2300	—	—	—	—	—	—	0.09	809	0.57	0.24	875	0.67	0.39	937	0.77
		2400	—	—	—	—	—	—	—	—	0.00	0.09	833	0.63	0.23	894	0.73

For 036 Models, fan motor heat (MBh) = 2.72 x Fan Bhp + 0.16. For 048 & 060 Models, fan motor heat (MBh) = 2.87 x Fan Bhp + 0.15.
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.

(a) Data includes pressure drop due to wet coil and filters.

Evaporator Fan Performance

Table 39. Belt drive evaporator fan performance - 3 tons standard efficiency - TSC036E3,E4,EW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	614	0.17	683	0.22	742	0.27	795	0.32	845	0.37	891	0.42	935	0.47	977	0.53
1080	—	—	561	0.15	635	0.20	704	0.25	765	0.30	818	0.36	868	0.42	913	0.47	957	0.53	998	0.59
1200	—	—	592	0.18	658	0.23	725	0.29	786	0.35	842	0.41	891	0.47	936	0.53	979	0.59	1019	0.66
1320	555	0.17	625	0.22	686	0.27	747	0.33	807	0.39	862	0.46	914	0.53	959	0.59	1002	0.66	1043	0.73
1440	592	0.21	658	0.27	717	0.32	772	0.38	828	0.44	882	0.51	933	0.58	980	0.66	1025	0.73	1065	0.80

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1016	0.59	1054	0.65	1089	0.70	1124	0.76	1155	0.82
1080	1036	0.65	1075	0.72	1111	0.78	1146	0.84	1180	0.91
1200	1058	0.72	1095	0.78	1131	0.85	1167	0.92	1201	0.99
1320	1082	0.80	1119	0.87	1153	0.94	1188	1.01	1221	1.08
1440	1104	0.88	1141	0.95	1176	1.03	1211	1.10	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 40. Belt drive evaporator fan performance - 3 tons standard efficiency - TSC036E3,E4,EW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	552	0.12	626	0.16	689	0.20	748	0.25	802	0.30	852	0.35	898	0.39	942	0.44	982	0.49
1080	—	—	576	0.14	654	0.19	716	0.24	772	0.29	825	0.34	874	0.39	921	0.45	964	0.50	1005	0.55
1200	—	—	600	0.17	681	0.23	744	0.28	799	0.33	850	0.39	898	0.44	943	0.50	987	0.56	1028	0.62
1320	554	0.16	627	0.20	705	0.27	773	0.33	828	0.38	877	0.44	923	0.50	967	0.56	1010	0.62	1052	0.69
1440	590	0.20	657	0.24	728	0.30	797	0.37	855	0.44	904	0.50	950	0.56	993	0.63	1034	0.69	1074	0.76

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1020	0.54	1057	0.59	1092	0.64	1126	0.69	1158	0.74
1080	1045	0.61	1082	0.67	1116	0.72	1151	0.77	1183	0.83
1200	1067	0.68	1104	0.74	1141	0.80	1174	0.86	1207	0.92
1320	1091	0.75	1127	0.82	1163	0.88	1198	0.95	1230	1.02
1440	1112	0.83	1150	0.90	1186	0.97	1221	1.04	1254	1.11
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 41. Belt drive evaporator fan performance - 3 tons standard efficiency - YSC036E3,E4,EW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	605	0.15	671	0.19	730	0.23	784	0.27	835	0.31	881	0.36	924	0.41	965	0.45
1080	—	—	563	0.14	630	0.17	693	0.22	751	0.26	804	0.31	854	0.35	901	0.40	946	0.46	986	0.50
1200	—	—	596	0.17	659	0.21	718	0.25	773	0.30	825	0.35	875	0.40	921	0.45	964	0.51	1005	0.56
1320	555	0.16	629	0.20	689	0.25	745	0.29	797	0.34	848	0.40	897	0.45	941	0.51	984	0.56	1026	0.62
1440	593	0.20	663	0.25	721	0.29	775	0.34	824	0.39	873	0.45	919	0.51	963	0.57	1006	0.63	1046	0.69

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1004	0.50	1039	0.55	1073	0.59	1105	0.64	1137	0.69
1080	1025	0.56	1063	0.61	1098	0.66	1132	0.72	1163	0.77
1200	1046	0.62	1082	0.67	1119	0.73	1153	0.79	1187	0.85
1320	1064	0.68	1103	0.74	1139	0.80	1174	0.86	1207	0.93
1440	1085	0.75	1123	0.81	1159	0.88	1193	0.94	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 42. Belt drive evaporator fan performance - 3 tons standard efficiency - YSC036E3,E4,EW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	613	0.15	679	0.20	736	0.24	788	0.28	837	0.32	886	0.37	930	0.42	973	0.47
1080	—	—	561	0.14	636	0.18	702	0.23	761	0.28	812	0.32	860	0.37	904	0.42	947	0.47	991	0.52
1200	—	—	589	0.16	661	0.21	726	0.26	784	0.31	836	0.37	884	0.42	929	0.47	970	0.52	1011	0.58
1320	—	—	619	0.20	687	0.25	750	0.30	807	0.36	859	0.41	909	0.47	953	0.53	995	0.59	1034	0.65
1440	585	0.19	651	0.24	715	0.29	775	0.35	831	0.40	883	0.47	931	0.53	976	0.59	1019	0.66	1058	0.72

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1014	0.53	1051	0.58	1087	0.63	1121	0.68	1155	0.74
1080	1031	0.58	1071	0.64	1108	0.69	1142	0.75	1177	0.81
1200	1049	0.63	1087	0.69	1124	0.75	1161	0.82	1195	0.88
1320	1071	0.70	1107	0.76	1143	0.82	1178	0.89	1213	0.96
1440	1095	0.78	1130	0.84	1166	0.91	1199	0.97	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 43. Belt drive evaporator fan performance - 3 tons standard efficiency - YSC036E3,E4,EW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	609	0.15	671	0.19	730	0.24	785	0.28	835	0.33	881	0.37	924	0.42	966	0.47
1080	—	—	572	0.14	638	0.18	697	0.23	752	0.27	805	0.32	855	0.37	900	0.42	945	0.47	986	0.53
1200	—	—	606	0.18	668	0.22	725	0.26	778	0.31	827	0.36	876	0.42	922	0.47	964	0.52	1007	0.58
1320	573	0.17	641	0.22	700	0.26	754	0.31	805	0.36	853	0.41	898	0.47	942	0.53	985	0.59	1026	0.65
1440	613	0.21	677	0.27	733	0.31	786	0.36	835	0.42	881	0.47	925	0.53	966	0.59	1007	0.65	1047	0.71

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1004	0.52	1041	0.58	1076	0.63	1109	0.68	1142	0.73
1080	1026	0.58	1063	0.64	1098	0.69	1133	0.75	1165	0.81
1200	1046	0.64	1083	0.70	1120	0.76	1154	0.82	1187	0.88
1320	1065	0.71	1103	0.77	1139	0.83	1175	0.90	1207	0.96
1440	1086	0.78	1123	0.84	1160	0.91	1194	0.98	1227	1.05
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 44. Belt drive evaporator fan performance - 3 tons standard efficiency - YSC036E3,E4,EW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	621	0.15	685	0.20	745	0.24	799	0.29	849	0.33	894	0.38	936	0.42	975	0.47
1080	—	—	580	0.14	649	0.19	711	0.23	768	0.28	821	0.32	871	0.38	917	0.43	960	0.48	1000	0.53
1200	—	—	613	0.18	679	0.22	738	0.27	793	0.32	845	0.37	892	0.42	939	0.48	982	0.53	1024	0.59
1320	574	0.17	647	0.22	710	0.26	767	0.31	820	0.37	870	0.42	917	0.48	962	0.53	1004	0.59	1046	0.66
1440	612	0.21	682	0.26	742	0.31	797	0.37	849	0.42	897	0.48	943	0.54	986	0.60	1028	0.66	1068	0.72

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1012	0.52	1048	0.57	1082	0.62	1116	0.67	1148	0.72
1080	1039	0.59	1075	0.64	1109	0.69	1142	0.74	1173	0.80
1200	1063	0.65	1100	0.71	1134	0.77	1168	0.83	1199	0.88
1320	1085	0.72	1122	0.78	1159	0.85	1193	0.91	1226	0.98
1440	1107	0.79	1145	0.86	1181	0.93	1216	1.00	1248	1.07
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 45. Belt drive evaporator fan performance - 4 tons standard efficiency - TSC048E3,E4,EW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	619	0.20	680	0.24	735	0.29	789	0.34	843	0.39	894	0.45	940	0.51	983	0.56	1025	0.63
1440	597	0.20	664	0.25	724	0.30	775	0.35	823	0.40	872	0.46	921	0.52	968	0.58	1012	0.65	1052	0.71
1600	648	0.26	710	0.32	768	0.37	818	0.43	864	0.49	908	0.54	950	0.60	995	0.67	1039	0.74	1081	0.81
1760	700	0.34	758	0.39	812	0.46	862	0.52	907	0.58	948	0.64	988	0.71	1027	0.77	1068	0.84	1108	0.91
1920	753	0.43	807	0.49	858	0.55	906	0.62	952	0.70	992	0.76	1029	0.83	1066	0.89	1102	0.96	1138	1.03

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1063	0.69	1101	0.75	1138	0.81	1175	0.88	1208	0.94
1440	1091	0.78	1128	0.85	1164	0.91	1198	0.98	1233	1.05
1600	1120	0.88	1157	0.95	1193	1.02	1227	1.10	1259	1.17
1760	1147	0.99	1185	1.07	1220	1.14	1256	1.23	—	—
1920	1174	1.11	1212	1.19	1247	1.27	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Note:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 46. Belt drive evaporator fan performance - 4 tons standard efficiency - TSC048E3,E4,EW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	633	0.20	704	0.26	767	0.31	822	0.37	871	0.42	915	0.48	957	0.54	997	0.60	1035	0.66
1440	604	0.20	676	0.26	744	0.32	805	0.38	859	0.44	909	0.50	954	0.57	996	0.63	1035	0.69	1073	0.76
1600	656	0.27	721	0.32	785	0.39	843	0.45	897	0.52	946	0.59	991	0.66	1034	0.73	1075	0.80	1110	0.87
1760	709	0.34	768	0.40	827	0.47	883	0.54	936	0.61	984	0.69	1030	0.77	1072	0.84	1113	0.92	1149	1.00
1920	762	0.43	817	0.50	872	0.57	925	0.64	975	0.72	1023	0.80	1067	0.88	1109	0.97	1150	1.05	1188	1.14
												1-hp Standard Motor & Field Supplied High Static Drive[b]								

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1072	0.71	1107	0.77	1142	0.84	1176	0.90	1210	0.97
1440	1108	0.83	1143	0.89	1176	0.96	1209	1.02	1239	1.09
1600	1146	0.95	1180	1.02	1212	1.09	1243	1.16	—	—
1760	1185	1.08	1219	1.16	1251	1.24	—	—	—	—
1920	1223	1.22	1258	1.31	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 47. Belt drive evaporator fan performance - 4 tons standard efficiency - YSC048E3,E4,EW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	571	0.17	641	0.22	701	0.26	755	0.31	807	0.36	858	0.42	907	0.49	953	0.55	996	0.61	1037	0.67
1440	624	0.23	689	0.28	747	0.33	799	0.39	847	0.44	892	0.50	938	0.56	983	0.63	1027	0.71	1067	0.78
1600	679	0.30	740	0.35	794	0.41	844	0.47	890	0.53	933	0.59	975	0.66	1016	0.72	1057	0.80	1097	0.88
1760	735	0.38	791	0.44	843	0.51	891	0.58	936	0.64	977	0.71	1017	0.77	1056	0.84	1092	0.91	1130	0.99
1920	791	0.48	844	0.55	893	0.62	939	0.69	982	0.76	1023	0.84	1061	0.91	1097	0.98	1133	1.05	1168	1.13
											1-hp Standard Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1075	0.73	1113	0.79	1147	0.85	1181	0.92	1215	0.98
1440	1106	0.85	1143	0.91	1179	0.98	1211	1.05	1245	1.11
1600	1137	0.96	1173	1.04	1209	1.12	1242	1.19	—	—
1760	1166	1.07	1203	1.16	1239	1.25	—	—	—	—
1920	1201	1.21	1236	1.29	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 48. Belt drive evaporator fan performance - 4 tons standard efficiency - YSC048E3,E4,EW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	638	0.21	704	0.26	766	0.31	822	0.37	875	0.42	922	0.48	968	0.54	1010	0.60	1052	0.66
1440	621	0.22	685	0.26	746	0.32	804	0.38	858	0.44	909	0.50	957	0.56	1002	0.63	1043	0.70	1084	0.76
1600	676	0.29	734	0.34	790	0.39	844	0.45	896	0.52	946	0.59	992	0.66	1036	0.73	1078	0.80	1118	0.87
1760	732	0.37	786	0.42	838	0.48	888	0.55	936	0.62	984	0.69	1029	0.76	1071	0.84	1112	0.91	1152	0.99
1920	789	0.47	839	0.53	887	0.59	934	0.66	979	0.73	1023	0.80	1067	0.88	1108	0.96	1149	1.04	1187	1.13
											1-hp Standard Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1091	0.73	1129	0.79	1166	0.85	1201	0.92	1234	0.98
1440	1122	0.83	1159	0.90	1196	0.97	1230	1.04	—	—
1600	1155	0.95	1192	1.02	1228	1.10	1261	1.17	—	—
1760	1189	1.07	1225	1.15	1261	1.24	—	—	—	—
1920	1225	1.21	1260	1.30	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 49. Belt drive evaporator fan performance - 4 tons standard efficiency - YSC048E3,E4,EW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	586	0.17	652	0.21	711	0.26	766	0.31	818	0.36	870	0.41	919	0.47	965	0.53	1008	0.59	1049	0.65
1440	642	0.23	704	0.28	759	0.33	810	0.38	859	0.43	906	0.49	951	0.55	996	0.61	1039	0.68	1080	0.74
1600	699	0.30	757	0.36	809	0.41	857	0.47	903	0.53	947	0.59	990	0.65	1030	0.71	1071	0.78	1111	0.85
1760	757	0.39	811	0.45	861	0.51	906	0.57	950	0.63	991	0.70	1031	0.76	1071	0.83	1109	0.90	1146	0.97
1920	816	0.49	867	0.56	914	0.63	957	0.69	998	0.76	1037	0.82	1076	0.89	1113	0.96	1149	1.04	1184	1.11
											1-hp Standard Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1086	0.71	1122	0.77	1157	0.83	1190	0.89	1221	0.94
1440	1119	0.81	1156	0.88	1191	0.94	1224	1.01	1257	1.08
1600	1151	0.92	1187	0.99	1223	1.07	1258	1.14	—	—
1760	1182	1.04	1218	1.12	1255	1.20	—	—	—	—
1920	1219	1.19	1252	1.27	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 50. Belt drive evaporator fan performance - 4 tons standard efficiency - YSC048E3,E4,EW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	587	0.18	659	0.23	722	0.28	782	0.33	835	0.39	886	0.45	931	0.51	975	0.57	1016	0.64	1056	0.70
1440	641	0.24	709	0.29	769	0.35	824	0.41	876	0.47	924	0.53	970	0.60	1013	0.67	1053	0.74	1092	0.81
1600	696	0.31	761	0.37	817	0.44	869	0.50	918	0.56	965	0.63	1009	0.70	1053	0.78	1092	0.85	1131	0.93
1760	753	0.40	813	0.47	867	0.54	917	0.61	963	0.68	1008	0.75	1051	0.82	1092	0.90	1132	0.98	1169	1.06
1920	810	0.50	867	0.58	919	0.66	966	0.73	1011	0.81	1053	0.88	1094	0.96	1134	1.04	1172	1.12	1209	1.21
											1-hp Standard Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1095	0.76	1131	0.83	1167	0.89	1200	0.95	1233	1.02
1440	1130	0.88	1164	0.95	1199	1.02	1234	1.09	—	—
1600	1167	1.00	1201	1.08	1236	1.16	—	—	—	—
1760	1206	1.14	1240	1.22	—	—	—	—	—	—
1920	1245	1.30	—	—	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 51. Belt drive evaporator fan performance - 5 tons standard efficiency - TSC060E3,E4,EW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	—	—	706	0.31	763	0.37	814	0.42	862	0.47	908	0.53	951	0.59	992	0.65	1031	0.71	1069	0.77
1800	710	0.35	767	0.41	819	0.47	868	0.53	913	0.59	957	0.66	998	0.72	1038	0.78	1075	0.85	1112	0.91
2000	777	0.46	828	0.53	877	0.60	924	0.67	967	0.74	1008	0.80	1047	0.87	1086	0.94	1122	1.01	1157	1.08
2200	844	0.60	892	0.68	938	0.75	981	0.83	1022	0.90	1061	0.97	1099	1.05	1136	1.13	1170	1.20	1205	1.28
2400	912	0.77	957	0.85	999	0.93	1040	1.01	1079	1.09	1117	1.17	1153	1.25	1187	1.33	1222	1.42	1254	1.50

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1105	0.83	1140	0.89	1174	0.96	1209	1.03	1242	1.10
1800	1146	0.98	1181	1.05	1213	1.12	1245	1.19	1276	1.26
2000	1191	1.15	1225	1.23	1256	1.30	1287	1.37	—	—
2200	1238	1.35	1269	1.43	—	—	—	—	—	—
2400	1286	1.58	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure
5. drop due to other options/accessories.
6. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
7. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 52. Belt drive evaporator fan performance - 5 tons standard efficiency - TSC060E3,E4,EW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	653	0.26	714	0.31	774	0.37	829	0.43	879	0.48	924	0.54	967	0.60	1007	0.66	1045	0.71	1082	0.78
1800	720	0.36	775	0.41	829	0.47	881	0.54	930	0.60	975	0.67	1016	0.73	1055	0.79	1093	0.86	1128	0.92
2000	787	0.47	837	0.54	887	0.60	935	0.67	982	0.74	1026	0.81	1068	0.88	1106	0.96	1142	1.03	1176	1.10
2200	856	0.61	902	0.68	947	0.75	992	0.83	1036	0.90	1078	0.98	1119	1.06	1157	1.14	1193	1.22	1227	1.30
2400	926	0.78	969	0.86	1010	0.94	1051	1.01	1092	1.09	1131	1.17	1170	1.26	1208	1.35	1244	1.43	1278	1.52

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1118	0.84	1152	0.90	1187	0.97	1219	1.04	1253	1.11
1800	1163	0.99	1195	1.06	1228	1.13	1260	1.20	1291	1.28
2000	1210	1.17	1243	1.24	1274	1.32	—	—	—	—
2200	1260	1.38	1292	1.45	—	—	—	—	—	—
2400	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Table 53. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	704	0.31	762	0.36	815	0.42	861	0.47	904	0.53	947	0.58	987	0.64	1028	0.70	1064	0.75	1101	0.82
1800	777	0.42	831	0.48	880	0.54	925	0.60	966	0.67	1005	0.73	1043	0.79	1080	0.86	1116	0.92	1151	0.98
2000	851	0.56	901	0.63	947	0.70	990	0.77	1031	0.83	1068	0.90	1102	0.97	1137	1.04	1171	1.11	1205	1.18
2200	926	0.73	973	0.81	1016	0.88	1057	0.96	1096	1.03	1131	1.10	1165	1.18	1198	1.26	1229	1.33	1260	1.41
2400	1002	0.93	1045	1.01	1086	1.10	1124	1.18	1162	1.26	1197	1.34	1230	1.42	1261	1.51	1291	1.59	—	—

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1137	0.88	1172	0.95	1205	1.01	1238	1.08	1270	1.15
1800	1186	1.05	1217	1.12	1251	1.19	1281	1.26	—	—
2000	1237	1.25	1269	1.32	—	—	—	—	—	—
2200	1291	1.49	—	—	—	—	—	—	—	—
2400	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 54. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	—	—	732	0.33	789	0.38	843	0.43	894	0.49	941	0.55	986	0.61	1028	0.68	1069	0.74	1107	0.80
1800	741	0.38	795	0.43	848	0.49	898	0.55	946	0.61	991	0.68	1034	0.74	1075	0.81	1114	0.88	1151	0.95
2000	811	0.50	861	0.57	909	0.63	956	0.69	1000	0.76	1044	0.83	1084	0.90	1124	0.97	1162	1.05	1198	1.12
2200	883	0.65	929	0.72	973	0.79	1016	0.86	1058	0.94	1098	1.01	1138	1.09	1176	1.16	1213	1.24	1249	1.32
2400	955	0.83	997	0.91	1038	0.99	1078	1.06	1118	1.14	1156	1.22	1193	1.30	1229	1.38	1264	1.46	—	—

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1144	0.87	1180	0.94	1213	1.00	1247	1.07	1279	1.14
1800	1188	1.02	1224	1.10	1257	1.17	1289	1.24	—	—
2000	1234	1.20	1269	1.28	—	—	—	—	—	—
2200	1282	1.40	—	—	—	—	—	—	—	—
2400	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Table 55. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	714	0.32	773	0.37	827	0.43	873	0.48	916	0.54	959	0.60	1003	0.66	1044	0.73	1083	0.79	1122	0.86
1800	788	0.44	842	0.50	893	0.56	939	0.62	980	0.68	1019	0.75	1056	0.81	1095	0.88	1133	0.95	1170	1.02
2000	863	0.58	914	0.65	961	0.72	1005	0.79	1045	0.86	1082	0.93	1117	0.99	1152	1.07	1187	1.14	1221	1.22
2200	939	0.76	986	0.84	1030	0.92	1073	0.99	1112	1.07	1148	1.14	1182	1.21	1214	1.29	1246	1.37	1277	1.44
2400	1016	0.97	1060	1.05	1101	1.14	1141	1.22	1179	1.31	1215	1.39	1248	1.47	1280	1.55	—	—	—	—

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1157	0.92	1193	0.99	1226	1.06	1258	1.12	1290	1.19
1800	1205	1.10	1240	1.17	1273	1.24	—	—	—	—
2000	1256	1.30	1289	1.38	—	—	—	—	—	—
2200	—	—	—	—	—	—	—	—	—	—
2400	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 56. Belt drive evaporator fan performance - 5 tons standard efficiency - YSC060E3,E4,EW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	711	0.30	769	0.36	823	0.41	874	0.47	923	0.53	969	0.59	1010	0.65	1050	0.71	1088	0.78	1126	0.84
1800	784	0.42	839	0.48	889	0.54	935	0.60	981	0.67	1024	0.73	1066	0.80	1104	0.87	1142	0.94	1177	1.00
2000	859	0.56	910	0.63	956	0.69	999	0.76	1041	0.83	1083	0.90	1123	0.98	1161	1.05	1197	1.12	1232	1.20
2200	934	0.72	982	0.80	1026	0.88	1067	0.95	1106	1.03	1144	1.10	1181	1.18	1218	1.26	1254	1.34	1288	1.42
2400	1010	0.92	1055	1.01	1097	1.09	1135	1.17	1173	1.25	1208	1.34	1242	1.42	1277	1.50	—	—	—	—

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1163	0.91	1197	0.98	1232	1.05	1265	1.12	1296	1.19
1800	1211	1.08	1244	1.15	1278	1.22	—	—	—	—
2000	1265	1.28	—	—	—	—	—	—	—	—
2200	—	—	—	—	—	—	—	—	—	—
2400	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK61x3/4" required. Field Supplied Belt may be necessary.

Table 57. Belt drive evaporator fan performance - 6 tons standard efficiency - TSC072F3,4,W downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	—	—	—	—	588	0.35	643	0.43	693	0.50	738	0.57	782	0.65	823	0.73	862	0.81	900	0.89
2160	—	—	564	0.37	618	0.44	672	0.52	721	0.60	765	0.68	806	0.76	847	0.85	885	0.93	922	1.02
2400	—	—	602	0.47	652	0.54	701	0.63	750	0.72	794	0.81	834	0.90	873	0.98	909	1.08	945	1.17
2640	589	0.50	642	0.59	690	0.67	734	0.76	779	0.85	822	0.95	864	1.05	901	1.15	936	1.24	971	1.34
2880	634	0.63	682	0.74	728	0.82	770	0.91	810	1.01	851	1.11	892	1.22	930	1.33	965	1.44	999	1.54

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive				1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)															
1920	937	0.98	971	1.06	1004	1.14	1037	1.22	1068	1.30	1097	1.38	1127	1.47	1154	1.55	1182	1.64	1210	1.74
2160	957	1.12	991	1.21	1024	1.30	1057	1.40	1087	1.49	1117	1.58	1146	1.67	1174	1.76	1201	1.85	1227	1.95
2400	980	1.27	1013	1.37	1046	1.47	1076	1.57	1106	1.68	1137	1.78	1166	1.89	1194	1.99	1220	2.08	1248	2.19
2640	1004	1.44[b]	1036	1.55	1067	1.65	1098	1.77	1129	1.88	1158	1.99	1185	2.10	1214	2.22	—	—	—	—
2880	1030	1.64	1061	1.75	1092	1.86	1123	1.98	1151	2.09	1181	2.22	—	—	—	—	—	—	—	—
					2-hp Oversized Motor & Drive															

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000.
5. 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 horse power 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)

Evaporator Fan Performance

Table 58. Belt drive evaporator fan performance - 6 tons standard efficiency - TSC072F3,4,W horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	—	—	580	0.33	641	0.41	692	0.47	738	0.54	783	0.63	827	0.71	870	0.79	912	0.88	951	0.96
2160	578	0.37	623	0.43	679	0.51	731	0.59	775	0.67	817	0.74	857	0.83	896	0.93	935	1.02	974	1.12
2400	633	0.49	673	0.56	718	0.63	769	0.72	814	0.82	855	0.90	893	0.98	929	1.08	965	1.18	999	1.29
2640	688	0.64	725	0.71	762	0.79	808	0.87	853	0.98	894	1.09	931	1.17	966	1.26	1000	1.36	1032	1.47[b]
2880	743	0.81	778	0.90	811	0.98	848	1.06	891	1.16	932	1.28	970	1.40	1004	1.49	1037	1.59	1068	1.69
									1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor)											

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)													
1920	990	1.05	1026	1.14	1062	1.24	1096	1.33	1130	1.43	1160	1.52	1190	1.61	1218	1.71	1247	1.80	1273	1.90
2160	1010	1.21	1047	1.31	1082	1.40	1116	1.50	1150	1.61	1182	1.71	1211	1.81	1242	1.92	1271	2.03	1298	2.14
2400	1035	1.39	1070	1.50	1104	1.60	1137	1.70	1168	1.81	1201	1.92	1232	2.03	1261	2.14	1291	2.26	—	—
2640	1065	1.59	1097	1.71	1129	1.82	1161	1.93	1192	2.05	1223	2.16	1252	2.27	—	—	—	—	—	—
2880	1099	1.80	1130	1.93	1159	2.05	1188	2.18	1217	2.30	—	—	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive										2-hp Oversized Motor & Field Supplied Drive[c]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000.
5. 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 2-hp Oversized Motor & Field Supplied Drive
(c) Field Supplied Fan Sheave AK56 and Belt AX30.

Table 59. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072F3,4,W*L,M low & medium heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	—	—	—	—	597	0.37	652	0.44	700	0.51	745	0.58	788	0.66	829	0.74	869	0.82	906	0.91
2160	—	—	575	0.38	629	0.46	683	0.54	730	0.62	774	0.70	815	0.78	854	0.86	893	0.95	929	1.04
2400	561	0.41	615	0.49	664	0.57	714	0.65	762	0.74	805	0.83	844	0.92	882	1.01	918	1.10	954	1.20
2640	606	0.53	657	0.62	703	0.70	747	0.79	792	0.88	835	0.98	875	1.08	912	1.18	947	1.27	980	1.37
2880	651	0.67	699	0.77	743	0.85	785	0.94	825	1.05	867	1.15	906	1.26	943	1.37	978	1.47	1010	1.58
															2-hp Oversized Motor & Drive					

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)													
1920	941	0.99	977	1.07	1009	1.15	1041	1.23	1073	1.32	1103	1.40	1132	1.49	1159	1.57	1187	1.66	1213	1.75
2160	964	1.13	997	1.23	1031	1.32	1061	1.41	1093	1.50	1123	1.60	1151	1.69	1179	1.78	1207	1.87	1234	1.97
2400	988	1.29	1020	1.39	1054	1.50	1085	1.60	1114	1.70	1143	1.80	1171	1.90	1200	2.01	1227	2.11	1254	2.21
2640	1014	1.47[b]	1046	1.58	1077	1.69	1107	1.80	1138	1.91	1166	2.02	1193	2.13	1222	2.25	—	—	—	—
2880	1042	1.68	1073	1.79	1103	1.90	1132	2.02	1162	2.14	1190	2.26	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000
5. 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)

Evaporator Fan Performance

Table 60. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072F3,4,W*L,M low & medium heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	—	—	591	0.34	649	0.42	699	0.48	745	0.56	789	0.64	834	0.72	877	0.81	918	0.89	957	0.97
2160	587	0.38	633	0.44	690	0.52	740	0.61	784	0.68	825	0.76	865	0.85	904	0.95	943	1.04	981	1.13
2400	643	0.51	682	0.58	732	0.65	781	0.75	825	0.84	864	0.92	902	1.01	938	1.11	974	1.21	1010	1.32[b]
2640	700	0.66	736	0.74	775	0.81	822	0.90	866	1.01	906	1.11	942	1.20	976	1.29	1009	1.40	1042	1.51
2880	756	0.84	790	0.93	823	1.01	864	1.09	907	1.20	947	1.32	983	1.43	1017	1.53	1048	1.62	1080	1.73
															2-hp Oversized Motor & Drive					

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)													
1920	996	1.06	1033	1.16	1067	1.25	1102	1.35	1134	1.44	1165	1.53	1195	1.63	1223	1.72	1251	1.82	1277	1.91
2160	1018	1.23	1054	1.32	1090	1.42	1123	1.52	1156	1.63	1188	1.73	1218	1.84	1247	1.94	1276	2.05	1304	2.16
2400	1044	1.42	1079	1.52	1112	1.62	1145	1.73	1177	1.83	1208	1.94	1240	2.06	1268	2.17	1298	2.29	—	—
2640	1075	1.62	1107	1.74	1139	1.85	1170	1.96	1201	2.08	1232	2.19	—	—	—	—	—	—	—	—
2880	1111	1.85	1140	1.97	1169	2.09	1200	2.22	—	—	—	—	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive										2-hp Oversized Motor & Field Supplied High Static Drive[c]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000.
5. 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 1-hp Standard Motor & High Static Drive (or 2-hp Oversized Motor)
(c) Field Supplied Fan Sheave AK56 and Belt AX30 required.

Table 61. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072F3,4,W*H high heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	—	—	574	0.34	631	0.41	681	0.48	727	0.55	771	0.63	814	0.71	853	0.79	892	0.87	928	0.95
2160	562	0.36	616	0.44	671	0.52	719	0.60	763	0.68	805	0.76	845	0.84	884	0.93	921	1.02	957	1.11
2400	612	0.48	662	0.56	711	0.65	759	0.74	802	0.83	842	0.91	879	1.00	916	1.09	951	1.19	986	1.29
2640	663	0.63	709	0.71	754	0.80	798	0.90	842	1.00	881	1.10	917	1.19	951	1.29	986	1.39	1018	1.49[b]
2880	715	0.80	758	0.88	799	0.98	840	1.08	880	1.19	920	1.30	955	1.41	990	1.51	1022	1.62	1053	1.72
																2-hp Oversized Motor & Drive				

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive				1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)															
1920	963	1.04	997	1.12	1028	1.20	1061	1.28	1090	1.36	1119	1.45	1149	1.54	1177	1.63	1203	1.71	1229	1.80
2160	990	1.21	1023	1.30	1055	1.39	1086	1.48	1115	1.57	1144	1.66	1173	1.76	1200	1.85	1227	1.95	1253	2.04
2400	1019	1.39	1051	1.49	1083	1.60	1113	1.70	1141	1.80	1171	1.90	1199	2.01	1225	2.10	1252	2.20	—	—
2640	1050	1.59	1081	1.70	1111	1.81	1141	1.93	1170	2.04	1198	2.15	1226	2.27	—	—	—	—	—	—
2880	1084	1.83	1114	1.94	1143	2.06	1172	2.18	1199	2.30	—	—	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000
5. 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor)

Evaporator Fan Performance

Table 62. Belt drive evaporator fan performance - 6 tons standard efficiency with gas heat - YSC072F3,4,W*H high heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1920	565	0.31	627	0.39	680	0.46	727	0.52	772	0.61	816	0.69	859	0.77	902	0.86	942	0.94	981	1.03
2160	621	0.43	677	0.50	729	0.59	774	0.66	816	0.74	856	0.83	895	0.93	934	1.02	973	1.11	1009	1.21[b]
2400	680	0.57	729	0.65	778	0.74	823	0.84	862	0.92	900	1.00	936	1.10	972	1.20	1006	1.31	1041	1.41
2640	741	0.75	782	0.82	828	0.92	872	1.03	911	1.13	947	1.21	981	1.31	1014	1.41	1048	1.53	1079	1.64
2880	802	0.95	837	1.04	880	1.13	921	1.24	960	1.36	995	1.47	1028	1.56	1060	1.66	1091	1.77	1122	1.89
													2-hp Oversized Motor & Drive							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor & Drive)																			
1920	1018	1.12	1054	1.21	1089	1.31	1122	1.40	1154	1.50	1184	1.59	1212	1.69	1241	1.78	1268	1.88	1293	1.97
2160	1045	1.30	1081	1.40	1114	1.50	1149	1.61	1181	1.71	1211	1.81	1241	1.92	1270	2.03	1298	2.13	1324	2.24
2400	1076	1.51	1110	1.62	1143	1.72	1176	1.83	1206	1.94	1238	2.05	1267	2.16	1297	2.28	—	—	—	—
2640	1111	1.75	1144	1.87	1174	1.98	1205	2.09	1236	2.21	—	—	—	—	—	—	—	—	—	—
2880	1151	2.02	1180	2.14	1209	2.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive						2-hp Oversized Motor & Field Supplied High Static Drive[c]													

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 3.000 x Fan bhp +.5000.
5. 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.

(a) Field Supplied Fan Sheave AK84 and Belt AX36 required.
(b) 1-hp Standard Motor & High Static Drive Kit (or 2-hp Oversized Motor).
(c) Field Supplied Fan Sheave AK56 and Belt AX30 required.

Table 63. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC090F3,4,W downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	613	0.42	668	0.50	711	0.57	756	0.65	798	0.72	838	0.80	875	0.88	911	0.96	945	1.04	978	1.12
2700	676	0.56	733	0.69	767	0.74	808	0.83	848	0.91	886	1.00	922	1.09	956	1.18	989	1.27	1021	1.36
3000	741	0.75	793	0.89	832	0.98	863	1.04	901	1.14	936	1.24	971	1.33	1003	1.43	1036	1.53	1067	1.63
3300	807	0.98	849	1.10	897	1.26	925	1.32	954	1.40	989	1.51	1022	1.62	1053	1.73	1084	1.83	1113	1.94
3600	874	1.25	909	1.36	957	1.55	990	1.67	1015	1.73	1042	1.82	1074	1.95	1104	2.07	1134	2.18	1163	2.30
					3-hp Oversized Motor & Drive															

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive								3-hp Oversized Motor & Drive											
2400	1011	1.20	1041	1.28	1070	1.36	1099	1.44	1127	1.52	1153	1.60	1178	1.68	1203	1.76	1229	1.84	1252	1.92
2700	1051	1.45	1082	1.54	1111	1.63	1139	1.72	1166	1.81	1192	1.90	1217	1.98	1243	2.08	1268	2.17	1291	2.25
3000	1096	1.73	1124	1.83	1153	1.93	1180	2.03	1207	2.13	1233	2.23	1258	2.33	1283	2.43	1308	2.53	1331	2.63
3300	1142	2.05	1170	2.16	1197	2.27	1223	2.37	1249	2.48	1275	2.59	1300	2.71	1324	2.82	1347	2.92	1371	3.03
3600	1191	2.41	1218	2.53	1244	2.65	1269	2.77	1294	2.89	1319	3.01	1342	3.12	1366	3.24	1389	3.36	—	—
									3-hp Oversized Motor & Field Supplied High Static Drive[b]											

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Evaporator Fan Performance

Table 64. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC090F3,4,W horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]												1-hp Standard Motor & Drive							
2400	681	0.52	726	0.60	770	0.69	811	0.77	852	0.85	892	0.94	931	1.02	969	1.11	1007	1.20	1046	1.31
2700	754	0.72	796	0.81	835	0.90	874	0.99	910	1.08	947	1.18	983	1.27	1018	1.37	1052	1.47	1087	1.57
3000	828	0.97	868	1.07	903	1.17	938	1.27	973	1.37	1005	1.47	1039	1.57	1072	1.68	1103	1.78	1135	1.90
3300	904	1.26	940	1.37	974	1.48	1004	1.59	1037	1.71	1069	1.82	1098	1.93	1129	2.04	1159	2.15	1188	2.27
3600	979	1.62	1013	1.74	1045	1.86	1074	1.98	1103	2.10	1133	2.22	1162	2.35	1189	2.46	1217	2.58	1245	2.71
	3-hp Oversized Motor & Drive																			

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						3-hp Oversized Motor & Drive													
2400	1083	1.42	1119	1.52	1153	1.63	1185	1.73	1218	1.84	1249	1.95	1278	2.06	1307	2.16	1337	2.28	1364	2.38
2700	1120	1.67	1154	1.79	1188	1.91	1220	2.02	1252	2.14	1283	2.26	1313	2.39	1342	2.51	1370	2.63	1397	2.74
3000	1166	2.00	1197	2.12	1227	2.23	1256	2.34	1288	2.47	1318	2.61	1347	2.73	1377	2.87	1406	3.01	1433	3.14
3300	1217	2.39	1246	2.51	1274	2.63	1302	2.75	1330	2.88	1357	3.00	1384	3.13	1413	3.27	1441	3.42	—	—
3600	1272	2.83	1299	2.96	1326	3.09	1352	3.22	1378	3.35	—	—	—	—	—	—	—	—	—	—
	3-hp Oversized Motor & Field Supplied High Static Drive[b]																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Table 65. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC090F3,4,W low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	655	0.47	707	0.55	758	0.64	802	0.72	845	0.80	886	0.88	925	0.97	961	1.05	997	1.14	1028	1.22
2700	724	0.64	770	0.73	817	0.83	861	0.92	900	1.02	939	1.11	976	1.20	1011	1.30	1045	1.39	1077	1.49
3000	794	0.86	837	0.96	878	1.06	920	1.17	958	1.27	994	1.38	1029	1.48	1063	1.58	1096	1.69	1128	1.79
3300	865	1.12	905	1.23	942	1.34	980	1.45	1018	1.57	1053	1.69	1085	1.80	1117	1.92	1148	2.03	1179	2.14
3600	937	1.43	973	1.55	1008	1.67	1042	1.79	1077	1.91	1112	2.05	1144	2.18	1174	2.30	1203	2.42	1232	2.55
											3-hp Oversized Motor & Drive									

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						3-hp Oversized Motor & Drive													
2400	1060	1.30	1091	1.39	1120	1.48	1150	1.57	1178	1.65	1204	1.74	1231	1.83	1256	1.91	1281	2.00	1304	2.09
2700	1109	1.58	1139	1.68	1167	1.77	1195	1.86	1223	1.96	1249	2.06	1275	2.16	1301	2.26	1325	2.35	1349	2.45
3000	1158	1.90	1188	2.00	1216	2.11	1244	2.21	1271	2.32	1296	2.42	1321	2.53	1346	2.64	1371	2.75	1393	2.85
3300	1209	2.26	1238	2.37	1265	2.49	1293	2.61	1319	2.72	1344	2.84	1369	2.95	1393	3.07	1416	3.18	1441	3.30
3600	1261	2.67	1289	2.80	1316	2.92	1342	3.04	1368	3.17	1393	3.30	1419	3.43	—	—	—	—	—	—
			3-hp Oversized Motor & Field Supplied High Static Drive[b]																	

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Evaporator Fan Performance

Table 66. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC090F3,4,W low & medium gas heat - horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]												1-hp Standard Motor & Drive							
2400	739	0.61	783	0.69	825	0.77	866	0.85	903	0.93	941	1.02	978	1.11	1013	1.20	1046	1.28	1078	1.37
2700	821	0.85	861	0.94	898	1.03	935	1.12	972	1.21	1005	1.30	1038	1.39	1072	1.49	1104	1.59	1135	1.69
3000	904	1.14	940	1.24	974	1.34	1008	1.44	1042	1.54	1075	1.65	1105	1.74	1135	1.85	1164	1.95	1195	2.06
3300	987	1.49	1020	1.60	1052	1.71	1083	1.82	1113	1.93	1144	2.04	1174	2.16	1203	2.27	1230	2.38	1257	2.49
3600	1071	1.92	1101	2.04	1131	2.15	1160	2.27	1188	2.39	1216	2.51	1244	2.64	1272	2.76	1298	2.88	1323	3.00
	3-hp Oversized Motor & Drive												3-hp Oversized Motor & Field Supplied Drive[b]							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	3-hp Oversized Motor & Drive																			
2400	1110	1.46	1140	1.55	1169	1.64	1198	1.73	1225	1.82	1251	1.91	1277	2.01	1301	2.10	1326	2.19	1350	2.28
2700	1165	1.78	1195	1.88	1223	1.98	1251	2.08	1277	2.18	1304	2.29	1330	2.39	1355	2.49	1378	2.59	1402	2.70
3000	1224	2.17	1252	2.28	1279	2.39	1306	2.49	1332	2.60	1358	2.71	1383	2.83	1407	2.94	1430	3.05	1454	3.16
3300	1283	2.61	1311	2.73	1338	2.85	1364	2.97	1389	3.09	1413	3.21	1439	3.33	—	—	—	—	—	—
3600	1349	3.13	1373	3.25	1398	3.38	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3-hp Oversized Motor & Field Supplied High Static Drive[b]																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Table 67. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC090F3,4,W high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	675	0.51	727	0.60	772	0.68	815	0.76	857	0.85	896	0.93	935	1.02	971	1.11	1006	1.19	1041	1.29
2700	748	0.70	793	0.80	837	0.89	877	0.98	915	1.08	952	1.17	988	1.27	1022	1.37	1056	1.47	1089	1.57
3000	821	0.94	862	1.04	903	1.15	941	1.25	976	1.35	1011	1.46	1045	1.57	1077	1.67	1109	1.78	1140	1.89
3300	895	1.23	932	1.34	970	1.46	1007	1.58	1040	1.69	1072	1.79	1104	1.91	1134	2.03	1164	2.15	1194	2.27
3600	969	1.57	1004	1.70	1038	1.82	1073	1.95	1106	2.07	1136	2.19	1166	2.32	1195	2.44	1223	2.57	1251	2.70
	3-hp Oversized Motor & Drive																			

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	3-hp Oversized Motor & Drive								3-hp Oversized Motor & Drive											
2400	1074	1.37	1105	1.46	1136	1.55	1165	1.64	1194	1.73	1222	1.83	1250	1.92	1275	2.00	1301	2.10	1326	2.18
2700	1121	1.66	1151	1.76	1181	1.86	1211	1.97	1238	2.06	1266	2.17	1292	2.27	1318	2.37	1344	2.47	1369	2.57
3000	1170	2.00	1199	2.11	1229	2.22	1256	2.33	1285	2.44	1311	2.55	1336	2.66	1363	2.77	1388	2.89	1413	3.00
3300	1223	2.39	1251	2.50	1279	2.62	1305	2.74	1333	2.87	1358	2.98	1384	3.11	1408	3.23	1434	3.35	—	—
3600	1279	2.83	1305	2.95	1331	3.08	1357	3.21	1383	3.34	—	—	—	—	—	—	—	—	—	—
	3-hp Oversized Motor & Field Supplied High Static Drive[b]																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Evaporator Fan Performance

Table 68. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC090F3,4,W high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]												1-hp Standard Motor & Drive							
2400	776	0.70	819	0.79	859	0.87	898	0.96	936	1.05	972	1.13	1007	1.22	1039	1.31	1071	1.40	1102	1.49
2700	863	0.97	901	1.07	938	1.16	974	1.26	1009	1.36	1043	1.46	1075	1.55	1106	1.65	1136	1.75	1165	1.85
3000	951	1.31	985	1.42	1019	1.52	1052	1.63	1084	1.73	1116	1.84	1146	1.95	1176	2.06	1205	2.17	1232	2.28
3300	1039	1.72	1071	1.84	1102	1.95	1132	2.07	1162	2.18	1191	2.30	1220	2.42	1248	2.54	1275	2.66	1302	2.78
3600	1128	2.21	1157	2.34	1186	2.46	1214	2.59	1242	2.71	1269	2.84	1296	2.97	1322	3.10	1348	3.23	1373	3.36
	3-hp Oversized Motor & Drive										3-hp Oversized Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	3-hp Oversized Motor & Drive																			
2400	1132	1.58	1161	1.68	1189	1.77	1216	1.86	1242	1.95	1268	2.04	1293	2.13	1318	2.23	1342	2.33	1364	2.42
2700	1194	1.95	1222	2.05	1249	2.16	1276	2.26	1301	2.37	1327	2.48	1350	2.57	1374	2.68	1398	2.78	1421	2.88
3000	1260	2.39	1286	2.50	1312	2.61	1337	2.72	1363	2.84	1387	2.96	1410	3.07	1434	3.19	1457	3.31	—	—
3300	1328	2.90	1353	3.02	1378	3.14	1402	3.26	1426	3.39	—	—	—	—	—	—	—	—	—	—
3600	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	3-hp Oversized Motor & Field Supplied High Static Drive[b]																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) Field Supplied Fan Sheave AK74 and Belt AX35
(b) Field Supplied Fan Sheave BK52 and Belt BX30

Table 69. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC092F3,4,W downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	—	—	474	0.36	524	0.44	570	0.52	611	0.59	650	0.68	686	0.76	720	0.84	752	0.93	783	1.02
2700	458	0.39	508	0.47	554	0.55	598	0.64	638	0.73	676	0.82	711	0.91	745	1.00	776	1.09	806	1.19
3000	498	0.52	544	0.60	587	0.69	628	0.78	666	0.88	704	0.98	738	1.08	770	1.18	801	1.28	831	1.38
3300	539	0.67	581	0.76	621	0.85	660	0.96	696	1.06	732	1.17	766	1.28	797	1.39	828	1.49	856	1.60
3600	580	0.85	620	0.95	657	1.05	693	1.16	728	1.27	761	1.38	794	1.50	825	1.62	855	1.74	882	1.85
															3-hp Oversized Motor & Drive[b]					

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor Drive										3-hp Oversized Motor & Drive[b]									
2400	813	1.10	841	1.19	868	1.28	894	1.37	920	1.46	943	1.54	967	1.63	990	1.72	1012	1.81	1035	1.90
2700	836	1.29	864	1.39	891	1.48	917	1.58	942	1.68	966	1.78	990	1.88	1012	1.97	1035	2.07	1056	2.17
3000	860	1.49	887	1.60	914	1.70	940	1.81	964	1.92	988	2.03	1012	2.13	1035	2.24	1056	2.35	1079	2.46
3300	885	1.72	911	1.83	938	1.94	963	2.06	988	2.18	1012	2.30	1035	2.42	1057	2.54	1079	2.65	1100	2.77
3600	910	1.97	937	2.09	963	2.22	988	2.34	1012	2.46	1035	2.59	1059	2.72	1081	2.85	1104	2.98	1124	3.11
											3-hp Oversized Motor & Field Supplied High Static Drive[c]									

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Evaporator Fan Performance

Table 70. Belt drive evaporator fan performance - 7½ tons standard efficiency - TSC092F3,4,W horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	478	0.36	528	0.43	576	0.52	626	0.62	681	0.75	731	0.88	778	1.02	821	1.15	862	1.29	901	1.43
2700	526	0.49	570	0.57	614	0.66	656	0.76	701	0.88	751	1.02	797	1.17	840	1.32	880	1.47	920	1.63
3000	575	0.65	615	0.74	655	0.84	694	0.94	731	1.05	770	1.17	817	1.34	859	1.50	900	1.67	938	1.83
3300	624	0.84	661	0.94	698	1.04	734	1.15	768	1.27	802	1.39	838	1.52	878	1.69	919	1.87	957	2.05
3600	675	1.07	709	1.17	742	1.28	776	1.41	809	1.53	840	1.65	871	1.79	903	1.92	939	2.10	977	2.29
											3-hp Oversized Motor & Drive[b]									

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	3-hp Oversized Motor & Drive[b]																			
2400	938	1.57	973	1.71	1007	1.86	1038	1.99	1070	2.14	1101	2.29	1130	2.44	1159	2.59	1187	2.74	1214	2.89
2700	956	1.78	991	1.93	1024	2.08	1057	2.25	1088	2.40	1119	2.56	1149	2.73	1177	2.89	1206	3.06	1233	3.22
3000	975	2.00	1009	2.16	1044	2.34	1075	2.51	1108	2.69	1138	2.86	1167	3.03	1195	3.21	1222	3.38	—	—
3300	994	2.24	1028	2.42	1063	2.61	1094	2.79	1126	2.98	1155	3.16	1185	3.35	—	—	—	—	—	—
3600	1013	2.49	1048	2.69	1081	2.88	1114	3.09	1145	3.29	—	—	—	—	—	—	—	—	—	—
							3-hp Oversized Motor & Field Supplied High Static Drive[c]													

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Table 71. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092F3,4,W low & medium heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	—	—	500	0.39	549	0.47	594	0.55	636	0.63	674	0.71	709	0.80	742	0.88	772	0.96	800	1.04
2700	493	0.44	533	0.50	584	0.60	626	0.69	666	0.78	704	0.87	739	0.96	772	1.05	802	1.15	830	1.24
3000	536	0.58	575	0.65	620	0.75	661	0.86	698	0.95	734	1.05	769	1.15	802	1.25	832	1.35	861	1.46
3300	580	0.75	620	0.84	653	0.91	696	1.05	732	1.16	766	1.26	799	1.37	831	1.48	862	1.59	891	1.70
3600	625	0.96	665	1.07	693	1.13	730	1.25	768	1.39	800	1.51	832	1.62	861	1.74	891	1.86	920	1.98
													3-hp Oversized Motor & Drive[b]							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor Drive										3-hp Oversized Motor & Drive[b]									
2400	828	1.12	855	1.20	881	1.29	905	1.37	928	1.45	952	1.53	974	1.61	996	1.69	1017	1.77	1038	1.86
2700	858	1.33	884	1.42	909	1.51	933	1.60	957	1.69	980	1.79	1002	1.88	1024	1.97	1044	2.06	1066	2.15
3000	888	1.56	913	1.66	939	1.77	963	1.87	986	1.97	1008	2.07	1032	2.17	1053	2.27	1073	2.37	1093	2.47
3300	918	1.82	944	1.93	969	2.04	994	2.16	1016	2.26	1039	2.38	1061	2.49	1082	2.60	1103	2.71	1123	2.83
3600	948	2.10	974	2.22	1000	2.35	1024	2.47	1046	2.59	1069	2.72	1091	2.84	1112	2.96	1133	3.08	1152	3.20
											3-hp Oversized Motor & Field Supplied High Static Drive[c]									

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 3.100 x Fan bhp +.200. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Evaporator Fan Performance

Table 72. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092F3,4,W low & medium heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	527	0.43	573	0.51	615	0.59	656	0.68	693	0.77	728	0.86	760	0.95	791	1.04	819	1.13	847	1.22
2700	581	0.59	624	0.68	663	0.77	699	0.86	736	0.96	770	1.07	801	1.17	830	1.27	859	1.37	886	1.47
3000	636	0.78	675	0.88	712	0.98	747	1.09	779	1.19	812	1.30	843	1.42	872	1.53	899	1.64	926	1.75
3300	692	1.02	728	1.13	763	1.24	795	1.35	827	1.47	856	1.58	886	1.70	915	1.83	942	1.95	968	2.08
3600	748	1.30	782	1.42	814	1.54	845	1.66	874	1.78	903	1.91	929	2.04	957	2.17	985	2.30	1010	2.44
					3-hp Oversized Motor & Drive[b]															

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						3-hp Oversized Motor & Drive[b]													
2400	873	1.31	899	1.40	923	1.48	946	1.57	969	1.66	992	1.75	1013	1.84	1034	1.93	1054	2.02	1074	2.11
2700	912	1.57	937	1.67	961	1.77	984	1.87	1007	1.97	1028	2.07	1050	2.17	1071	2.27	1090	2.36	1110	2.47
3000	951	1.86	976	1.97	1000	2.09	1023	2.20	1045	2.31	1067	2.42	1088	2.53	1107	2.64	1128	2.75	1147	2.86
3300	992	2.20	1016	2.32	1040	2.44	1062	2.57	1084	2.68	1105	2.81	1126	2.93	1147	3.06	1166	3.17	1186	3.30
3600	1034	2.57	1057	2.70	1081	2.84	1103	2.98	1124	3.11	1145	3.24	1165	3.37	—	—	—	—	—	—
									3-hp Oversized Motor & Field Supplied High Static Drive[c]											

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Table 73. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092F3,4,W high heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
2400	—	—	508	0.40	556	0.48	603	0.56	645	0.65	683	0.73	718	0.81	751	0.90	782	0.98	811	1.06
2700	500	0.45	549	0.54	592	0.61	635	0.70	676	0.80	714	0.89	749	0.99	782	1.08	812	1.17	842	1.27
3000	545	0.60	591	0.70	630	0.78	669	0.87	707	0.97	744	1.08	780	1.18	812	1.28	843	1.39	873	1.49
3300	591	0.77	632	0.88	672	0.98	706	1.07	741	1.18	776	1.29	810	1.40	842	1.52	874	1.63	903	1.75
3600	637	0.98	675	1.10	713	1.22	747	1.32	778	1.42	810	1.53	843	1.65	874	1.78	904	1.90	933	2.03
													3-hp Oversized Motor & Drive[b]							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive										3-hp Oversized Motor & Drive[b]									
2400	839	1.15	866	1.23	891	1.31	916	1.39	941	1.48	963	1.56	986	1.64	1008	1.73	1029	1.81	1050	1.89
2700	869	1.36	895	1.45	921	1.54	946	1.64	969	1.73	992	1.82	1015	1.92	1037	2.01	1058	2.11	1078	2.20
3000	900	1.59	926	1.70	952	1.80	975	1.90	999	2.01	1022	2.11	1044	2.22	1066	2.32	1088	2.43	1108	2.53
3300	930	1.86	957	1.98	983	2.09	1007	2.21	1029	2.31	1053	2.43	1075	2.55	1096	2.66	1117	2.77	1137	2.88
3600	961	2.15	987	2.28	1013	2.41	1037	2.53	1061	2.65	1083	2.78	1105	2.90	1127	3.03	1147	3.15	1168	3.28
											3-hp Oversized Motor & Field Supplied High Static Drive[c]									

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Evaporator Fan Performance

Table 74. Belt drive evaporator fan performance - 7½ tons standard efficiency with gas heat - YSC092F3,4,W high heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]												1-hp Standard Motor & Drive							
2400	548	0.47	593	0.56	635	0.64	674	0.74	709	0.82	744	0.92	777	1.01	808	1.10	837	1.20	865	1.29
2700	605	0.65	647	0.74	686	0.84	721	0.94	756	1.04	787	1.14	818	1.24	849	1.35	878	1.45	905	1.56
3000	663	0.86	702	0.97	737	1.08	772	1.18	803	1.29	834	1.41	864	1.52	891	1.63	919	1.74	946	1.86
3300	722	1.12	757	1.24	791	1.36	823	1.48	853	1.59	882	1.72	911	1.85	938	1.97	964	2.09	988	2.21
3600	782	1.44	814	1.56	846	1.69	875	1.82	905	1.95	933	2.08	959	2.21	985	2.35	1010	2.49	1034	2.62
			3-hp Oversized Motor & Drive[b]																	

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive						3-hp Oversized Motor & Drive[b]													
2400	892	1.38	917	1.48	942	1.57	966	1.66	989	1.76	1012	1.85	1034	1.94	1055	2.04	1076	2.14	1096	2.23
2700	931	1.66	957	1.77	982	1.87	1005	1.98	1027	2.08	1050	2.19	1072	2.29	1093	2.40	1113	2.50	1133	2.61
3000	972	1.98	997	2.10	1021	2.21	1044	2.33	1067	2.45	1089	2.56	1111	2.68	1131	2.80	1152	2.91	1171	3.03
3300	1014	2.34	1038	2.46	1062	2.59	1085	2.72	1107	2.85	1129	2.98	1151	3.11	1171	3.24	1192	3.37	—	—
3600	1058	2.75	1081	2.88	1105	3.02	1127	3.16	1149	3.30	1171	3.45	—	—	—	—	—	—	—	—
							3-hp Oversized Motor & Field Supplied High Static Drive[c]													

Notes:
1. For Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp -.3800
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT400A
(c) Field Supplied AK56 x 1" Fan Sheave

Table 75. Belt drive evaporator fan performance - 8½ tons standard efficiency - TSC102F3,4,W downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Field Supplied Low Static Drive[a]																			
2720	—	—	—	—	550	0.51	592	0.59	629	0.67	665	0.76	698	0.84	729	0.92	758	1.00	787	1.08
3060	—	—	546	0.57	588	0.65	627	0.75	663	0.83	697	0.93	729	1.02	760	1.11	789	1.20	817	1.30
3400	548	0.65	589	0.74	628	0.83	664	0.93	698	1.03	731	1.13	763	1.23	792	1.34	820	1.44	847	1.54
3740	594	0.84	633	0.94	668	1.04	703	1.15	735	1.25	766	1.36	796	1.47	825	1.58	853	1.70	880	1.82
4080	640	1.07	678	1.19	711	1.29	743	1.40	774	1.51	804	1.63	832	1.75	860	1.87	887	1.99	912	2.11
									2-hp Standard Motor & Drive											

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive																			
2720	814	1.16	839	1.23	864	1.31	889	1.39	911	1.47	933	1.54	955	1.62	977	1.70	997	1.78	1017	1.85
3060	844	1.39	869	1.48	893	1.56	918	1.66	940	1.74	962	1.83	985	1.92	1005	2.00	1025	2.09	1045	2.18
3400	874	1.64	900	1.74	924	1.85	947	1.94	970	2.04	992	2.14	1014	2.24	1034	2.34	1055	2.44	1073	2.53
3740	905	1.93	931	2.04	954	2.15	978	2.26	1000	2.37	1022	2.48	1043	2.59	1064	2.70	1084	2.81	1104	2.92
4080	938	2.24	962	2.37	986	2.49	1009	2.62	1031	2.74	1052	2.86	1074	2.98	1094	3.10	1114	3.22	1133	3.34
									3-hp Oversized Motor & Drive[b]											

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1 hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A required.
(b) BAYHSMT097A required.

Evaporator Fan Performance

Table 76. Belt drive evaporator fan performance - 8½ tons standard efficiency - TSC102F3,4,W horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Field Supplied Low Static Drive Accessory Kit[a]																			
2720	528	0.46	571	0.54	616	0.63	669	0.75	711	0.86	752	0.98	788	1.09	821	1.20	851	1.31	880	1.42
3060	583	0.63	623	0.72	660	0.81	702	0.92	750	1.06	788	1.19	824	1.32	859	1.45	891	1.57	920	1.69
3400	639	0.84	676	0.94	709	1.04	743	1.14	783	1.27	827	1.43	862	1.57	896	1.72	928	1.86	959	2.00
3740	696	1.09	730	1.20	761	1.31	792	1.42	823	1.53	860	1.68	900	1.85	933	2.02	964	2.17	994	2.33
4080	753	1.39	785	1.52	815	1.64	843	1.75	870	1.87	899	2.00	933	2.16	969	2.34	1003	2.53	1032	2.70
			2-hp Standard Motor & Drive												3-hp Oversized Motor & Drive[b]					

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive														3-hp Oversized Motor & Drive[b]					
2720	908	1.53	933	1.64	959	1.75	984	1.87	1007	1.98	1031	2.09	1053	2.20	1075	2.32	1096	2.44	1116	2.55
3060	947	1.81	972	1.93	998	2.06	1023	2.19	1046	2.31	1068	2.43	1092	2.57	1113	2.69	1134	2.82	1155	2.95
3400	986	2.13	1013	2.27	1038	2.41	1062	2.54	1085	2.68	1108	2.82	1130	2.96	1152	3.10	1172	3.24	1192	3.37
3740	1024	2.50	1051	2.65	1078	2.80	1103	2.94	1126	3.09	1148	3.24	1170	3.39	—	—	—	—	—	—
4080	1061	2.88	1087	3.05	1114	3.22	1140	3.39	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 1 hp Fan Motor Heat (MBh) = 2.829 x Fan bhp +.4024. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp+.4750
5. 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.

(a) BAYLSDR009A required.
(b) BAYHSMT097A required.

Table 77. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102F3,4,W*L low heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]																			
2720	—	—	—	—	550	0.51	592	0.59	629	0.67	665	0.76	698	0.84	729	0.92	758	1.00	787	1.08
3060	—	—	546	0.57	588	0.65	627	0.75	663	0.83	697	0.93	729	1.02	760	1.11	789	1.20	817	1.30
3400	548	0.65	589	0.74	628	0.83	664	0.93	698	1.03	731	1.13	763	1.23	792	1.34	820	1.44	847	1.54
3740	594	0.84	633	0.94	668	1.04	703	1.15	735	1.25	766	1.36	796	1.47	825	1.58	853	1.70	880	1.82
4080	640	1.07	678	1.19	711	1.29	743	1.40	774	1.51	804	1.63	832	1.75	860	1.87	887	1.99	912	2.11
									2-hp Standard Motor & Drive											

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
			2-hp Standard Motor & Drive																	
2720	814	1.16	839	1.23	864	1.31	889	1.39	911	1.47	933	1.54	955	1.62	977	1.70	997	1.78	1017	1.85
3060	844	1.39	869	1.48	893	1.56	918	1.66	940	1.74	962	1.83	985	1.92	1005	2.00	1025	2.09	1045	2.18
3400	874	1.64	900	1.74	924	1.85	947	1.94	970	2.04	992	2.14	1014	2.24	1034	2.34	1055	2.44	1073	2.53
3740	905	1.93	931	2.04	954	2.15	978	2.26	1000	2.37	1022	2.48	1043	2.59	1064	2.70	1084	2.81	1104	2.92
4080	938	2.24	962	2.37	986	2.49	1009	2.62	1031	2.74	1052	2.86	1074	2.98	1094	3.10	1114	3.22	1133	3.34
			3-hp Oversized Motor & Drive[b]																	

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT097A

Evaporator Fan Performance

Table 78. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102F3,4,W*L low heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]												2-hp Standard Motor & Drive							
2720	577	0.55	619	0.64	657	0.73	696	0.82	732	0.92	765	1.02	797	1.12	828	1.21	858	1.31	887	1.42
3060	639	0.75	677	0.85	712	0.95	747	1.06	781	1.16	813	1.27	843	1.38	873	1.50	901	1.61	928	1.71
3400	701	1.00	737	1.12	770	1.23	800	1.34	832	1.46	863	1.57	892	1.69	920	1.81	946	1.94	972	2.07
3740	764	1.31	797	1.44	828	1.56	857	1.68	884	1.81	914	1.93	942	2.06	969	2.19	995	2.32	1019	2.46
4080	827	1.67	859	1.81	888	1.95	915	2.08	941	2.22	966	2.36	992	2.49	1019	2.62	1045	2.77	1069	2.92
											3-hp Oversized Motor & Drive[b]									

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive													3-hp Oversized Motor & Drive[b]						
2720	914	1.53	941	1.64	966	1.75	991	1.86	1015	1.97	1039	2.08	1061	2.19	1082	2.29	1104	2.41	1125	2.52
3060	954	1.82	981	1.94	1006	2.07	1030	2.19	1054	2.31	1078	2.43	1099	2.55	1121	2.68	1142	2.80	1163	2.92
3400	998	2.19	1023	2.30	1047	2.42	1071	2.55	1095	2.69	1116	2.82	1139	2.96	1160	3.10	1182	3.24	1202	3.37
3740	1043	2.59	1068	2.74	1091	2.88	1114	3.00	1136	3.13	1158	3.26	1180	3.41	—	—	—	—	—	—
4080	1092	3.06	1114	3.20	1136	3.35	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT097A

Table 79. Belt drive evaporator fan performance - 8½ tons with gas heat - YSC102F3,4,W*M medium heat downflow airflow

External Static Pressure (Inches of Water)																				
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]																			
2720	—	—	538	0.48	583	0.56	624	0.65	662	0.73	697	0.82	730	0.91	761	1.00	789	1.08	817	1.17
3060	539	0.54	583	0.63	624	0.73	663	0.82	700	0.92	734	1.01	766	1.11	796	1.21	825	1.31	852	1.41
3400	588	0.72	630	0.82	668	0.92	704	1.03	739	1.14	772	1.25	803	1.35	833	1.45	861	1.56	888	1.68
3740	639	0.93	678	1.05	713	1.16	747	1.27	780	1.39	812	1.51	841	1.63	870	1.75	898	1.86	924	1.97
4080	689	1.18	726	1.31	760	1.44	792	1.55	822	1.68	853	1.81	881	1.94	909	2.07	936	2.20	962	2.33
							2-hp Standard Motor & Drive								3-hp Oversized Motor & Drive[b]					

Continued

External Static Pressure (Inches of Water)																				
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive																			
2720	843	1.25	869	1.33	894	1.42	917	1.50	940	1.59	962	1.67	984	1.76	1004	1.84	1025	1.92	1044	2.00
3060	878	1.50	904	1.60	928	1.69	951	1.79	974	1.88	995	1.98	1016	2.07	1038	2.17	1057	2.26	1078	2.36
3400	914	1.79	939	1.89	962	2.00	986	2.11	1008	2.21	1030	2.32	1050	2.42	1071	2.53	1092	2.63	1111	2.74
3740	950	2.10	974	2.22	998	2.34	1021	2.46	1042	2.57	1064	2.69	1085	2.81	1106	2.93	1125	3.04	1144	3.16
4080	987	2.45	1011	2.58	1034	2.71	1057	2.85	1079	2.98	1099	3.11	1121	3.24	1141	3.37	—	—	—	—
					3-hp Oversized Motor & Drive[b]															

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYLHSMT097A

Evaporator Fan Performance

Table 80. Belt drive evaporator fan performance - 8½ tons with gas heat - YSC102F3,4,W*M medium heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]												2-hp Standard Motor & Drive							
2720	580	0.57	621	0.65	660	0.74	698	0.83	732	0.92	765	1.02	796	1.11	826	1.21	856	1.31	886	1.42
3060	642	0.78	680	0.88	714	0.97	749	1.07	783	1.18	814	1.28	843	1.38	872	1.49	900	1.60	927	1.71
3400	705	1.05	740	1.15	773	1.26	803	1.36	835	1.48	865	1.60	894	1.71	920	1.82	946	1.94	972	2.06
3740	768	1.37	801	1.49	832	1.60	860	1.71	888	1.83	916	1.96	945	2.09	971	2.21	996	2.34	1020	2.47
4080	832	1.76	863	1.89	891	2.01	919	2.13	944	2.25	969	2.38	996	2.53	1022	2.67	1046	2.80	1070	2.94
													3-hp Oversized Motor & Drive[b]							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive														3-hp Oversized Motor & Drive[b]					
2720	912	1.53	939	1.64	965	1.75	990	1.87	1014	1.98	1037	2.09	1060	2.21	1082	2.32	1104	2.44	1125	2.55
3060	953	1.82	979	1.94	1004	2.07	1029	2.19	1053	2.31	1076	2.44	1098	2.56	1120	2.69	1141	2.82	1162	2.95
3400	997	2.18	1022	2.30	1046	2.43	1069	2.56	1093	2.70	1114	2.82	1136	2.96	1158	3.10	1180	3.24	1200	3.38
3740	1043	2.60	1067	2.73	1090	2.86	1112	2.99	1135	3.13	1156	3.27	1177	3.42	—	—	—	—	—	—
4080	1093	3.08	1115	3.22	1136	3.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYLSDR097A

Table 81. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102F3,4,W*H high heat downflow airflow

External Static Pressure (Inches of Water)																				
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]																			
2720	—	—	543	0.49	588	0.58	627	0.67	665	0.75	699	0.83	731	0.92	762	1.01	790	1.09	816	1.17
3060	545	0.56	589	0.65	630	0.74	668	0.85	704	0.94	738	1.03	769	1.13	798	1.23	827	1.32	853	1.42
3400	595	0.74	637	0.85	675	0.95	711	1.05	745	1.17	777	1.28	807	1.37	837	1.48	864	1.59	891	1.70
3740	646	0.95	685	1.08	721	1.19	754	1.30	787	1.42	818	1.55	847	1.67	875	1.78	902	1.89	928	2.01
4080	698	1.21	734	1.35	768	1.48	800	1.60	830	1.72	860	1.85	888	1.99	915	2.13	941	2.25	967	2.37
					2-hp Standard Motor & Drive										3-hp Oversized Motor & Drive[b]					

Continued

External Static Pressure (Inches of Water)																				
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive																			
2720	842	1.26	867	1.34	891	1.43	914	1.51	936	1.60	957	1.68	979	1.77	999	1.85	1019	1.93	1038	2.02
3060	878	1.51	903	1.61	926	1.70	949	1.80	971	1.89	992	1.99	1013	2.08	1034	2.18	1053	2.27	1073	2.37
3400	916	1.81	939	1.91	963	2.02	985	2.12	1007	2.22	1029	2.33	1049	2.44	1069	2.54	1089	2.65	1108	2.76
3740	953	2.13	977	2.25	1000	2.36	1023	2.48	1044	2.60	1065	2.72	1085	2.83	1105	2.95	1124	3.06	1143	3.18
4080	991	2.49	1015	2.62	1038	2.75	1060	2.88	1082	3.01	1102	3.14	1122	3.26	1142	3.40	—	—	—	—
	3-hp Oversized Motor & Drive[b]																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT097A

Evaporator Fan Performance

Table 82. Belt drive evaporator fan performance - 8½ tons standard efficiency with gas heat - YSC102F3,4,W*H high heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	2-hp Standard Motor & Low Static Drive[a]										2-hp Standard Motor & Drive									
2720	573	0.53	629	0.65	675	0.77	710	0.86	744	0.96	776	1.05	806	1.14	835	1.23	863	1.33	892	1.43
3060	631	0.71	683	0.86	729	1.00	766	1.11	797	1.21	827	1.33	856	1.43	884	1.53	911	1.63	936	1.74
3400	688	0.94	738	1.10	781	1.26	822	1.42	852	1.53	880	1.65	907	1.77	934	1.89	960	2.00	985	2.11
3740	747	1.21	793	1.39	835	1.56	873	1.74	909	1.91	936	2.03	962	2.16	986	2.29	1011	2.42	1035	2.55
4080	807	1.53	850	1.73	890	1.92	926	2.11	961	2.30	993	2.49	1018	2.62	1041	2.75	1064	2.89	1087	3.04
											3-hp Oversized Motor & Drive[b]									

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	2-hp Standard Motor & Drive														3-hp Oversized Motor & Drive[b]					
2720	919	1.53	946	1.64	971	1.75	995	1.86	1020	1.98	1044	2.10	1065	2.21	1087	2.33	1108	2.44	1130	2.56
3060	961	1.85	987	1.96	1012	2.07	1036	2.19	1060	2.31	1082	2.44	1105	2.57	1126	2.69	1147	2.82	1168	2.95
3400	1009	2.23	1033	2.35	1055	2.47	1077	2.59	1100	2.71	1123	2.84	1145	2.96	1166	3.10	1187	3.24	1207	3.38
3740	1059	2.68	1082	2.80	1104	2.93	1125	3.06	1145	3.19	1166	3.32	1186	3.45	—	—	—	—	—	—
4080	1109	3.19	1132	3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. 2-hp Fan Motor Heat (MBh) = 2.000 x Fan bhp +.5000. 3-hp Fan Motor Heat (MBh) = 2.900 x Fan bhp +.4750
5. 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.

(a) BAYLSDR009A
(b) BAYHSMT097A

Table 83. Direct drive evaporator fan performance - 10 tons standard efficiency - TSC120F3,4,W downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1028	0.67	1054	0.74	1079	0.81	1105	0.88	1131	0.96	1157	1.04	1184	1.12	1209	1.21	1234	1.30	1258	1.38
3600	1150	0.93	1173	1.01	1196	1.09	1219	1.17	1242	1.25	1265	1.34	1288	1.43	1312	1.52	1335	1.61	1357	1.71
4000	1272	1.25	1294	1.34	1315	1.43	1335	1.52	1356	1.61	1376	1.70	1397	1.80	1418	1.90	1440	2.00	1460	2.09
4400	1395	1.65	1415	1.75	1435	1.84	1453	1.94	1472	2.04	1490	2.14	1509	2.24	1528	2.34	1547	2.45	1566	2.56
4800	1518	2.12	1537	2.23	1555	2.33	1572	2.44	1590	2.54	1606	2.65	1623	2.76	1641	2.87	1657	2.98	1675	3.10

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1280	1.46	1302	1.54	1324	1.63	1347	1.71	1370	1.80	1392	1.89	1414	1.99	1436	2.09	1458	2.19	1479	2.28
3600	1379	1.80	1401	1.90	1422	2.00	1441	2.09	1461	2.18	1480	2.27	1501	2.36	1521	2.46	1542	2.57	1561	2.67
4000	1481	2.20	1501	2.30	1522	2.41	1542	2.52	1561	2.63	1579	2.73	1597	2.84	1614	2.94	1631	3.04	1649	3.14
4400	1585	2.67	1604	2.78	1623	2.89	1642	3.01	1660	3.12	1679	3.25	1696	3.36	—	—	—	—	—	—
4800	1693	3.22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 84. Direct drive evaporator fan performance - 10 tons standard efficiency - TSC120F3,4,W horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1016	0.65	1044	0.72	1070	0.79	1097	0.87	1123	0.95	1148	1.03	1173	1.10	1197	1.18	1221	1.26	1245	1.34
3600	1137	0.91	1162	0.99	1185	1.07	1209	1.15	1232	1.24	1256	1.32	1279	1.41	1301	1.49	1323	1.58	1344	1.66
4000	1258	1.22	1280	1.31	1302	1.40	1323	1.49	1344	1.58	1366	1.68	1387	1.78	1408	1.87	1428	1.97	1448	2.06
4400	1379	1.60	1400	1.70	1420	1.80	1439	1.90	1459	2.00	1478	2.10	1497	2.21	1517	2.32	1535	2.42	1554	2.52
4800	1501	2.06	1520	2.17	1538	2.28	1557	2.38	1575	2.49	1592	2.60	1609	2.71	1627	2.83	1646	2.94	1663	3.06

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1269	1.43	1293	1.52	1317	1.61	1339	1.70	1361	1.78	1383	1.87	1404	1.96	1425	2.05	1447	2.14	1468	2.24
3600	1366	1.75	1386	1.84	1408	1.94	1429	2.04	1451	2.15	1472	2.25	1492	2.35	1513	2.45	1532	2.54	1551	003
4000	1467	2.15	1487	2.25	1506	2.34	1525	2.44	1544	2.55	1563	2.65	1582	2.76	1602	2.89	1620	3.00	1639	3.12
4400	1573	2.63	1591	2.73	1609	2.84	1626	2.94	1643	3.04	1661	3.15	1679	3.26	1696	3.37	—	—	—	—
4800	1681	3.18	1698	3.29	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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. Direct drive evaporator fan performance - 10 tons standard efficiency with gas heat - YSC120F3,4,W*L,M low & medium heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1055	0.73	1081	0.81	1105	0.88	1128	0.94	1152	1.01	1177	1.09	1202	1.17	1225	1.25	1249	1.33	1273	1.42
3600	1181	1.02	1204	1.10	1226	1.19	1248	1.27	1268	1.34	1289	1.42	1311	1.50	1333	1.59	1355	1.68	1376	1.77
4000	1307	1.38	1328	1.47	1348	1.56	1368	1.65	1388	1.74	1406	1.82	1425	1.91	1444	2.00	1464	2.10	1483	2.20
4400	1433	1.82	1453	1.92	1472	2.02	1490	2.12	1508	2.22	1525	2.32	1542	2.40	1559	2.49	1577	2.59	1594	2.69
4800	1560	2.34	1578	2.45	1595	2.56	1613	2.67	1629	2.77	1646	2.89	1662	2.99	1677	3.09	1692	3.18	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1296	1.51	1319	1.61	1343	1.70	1366	1.81	1390	1.91	1415	2.02	1438	2.11	1461	2.21	1484	2.31	1506	2.41
3600	1397	1.86	1418	1.95	1439	2.05	1460	2.16	1480	2.27	1501	2.38	1522	2.49	1543	2.61	1564	2.72	1585	2.83
4000	1503	2.30	1522	2.39	1542	2.49	1561	2.60	1579	2.70	1598	2.81	1616	2.93	1635	3.05	1654	3.17	1673	3.29
4400	1612	2.80	1630	2.91	1647	3.02	1665	3.13	1683	3.24	1700	3.34	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 86. Direct drive evaporator fan performance - 10 tons standard efficiency with gas heat - YSC120F3,4,W*L,M low & medium heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1043	0.70	1072	0.78	1099	0.85	1128	0.94	1154	1.02	1179	1.10	1203	1.17	1227	1.26	1250	1.35	1274	1.44
3600	1166	0.98	1192	1.06	1217	1.14	1241	1.23	1267	1.33	1291	1.42	1314	1.51	1335	1.59	1356	1.68	1378	1.78
4000	1290	1.32	1314	1.41	1337	1.50	1359	1.60	1381	1.69	1404	1.80	1426	1.91	1447	2.01	1467	2.10	1486	2.20
4400	1415	1.73	1436	1.83	1458	1.94	1478	2.04	1498	2.14	1518	2.25	1539	2.37	1560	2.49	1579	2.60	1597	2.70
4800	1540	2.23	1560	2.34	1579	2.45	1598	2.56	1617	2.67	1635	2.79	1653	2.90	1672	3.03	1692	3.16	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1298	1.53	1323	1.63	1347	1.72	1370	1.82	1394	1.92	1416	2.02	1437	2.12	1459	2.22	1482	2.33	1503	2.43
3600	1398	1.88	1419	1.98	1440	2.08	1462	2.19	1484	2.30	1505	2.40	1527	2.52	1547	2.62	1568	2.74	1587	2.84
4000	1505	2.30	1524	2.41	1542	2.51	1562	2.63	1581	2.74	1600	2.85	1619	2.97	1639	3.09	1658	3.20	1677	3.32
4400	1615	2.81	1633	2.91	1650	3.02	1667	3.14	1685	3.26	1700	3.38	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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. Direct drive evaporator fan performance - 10 tons with standard efficiency gas heat -YSC120F3,4,W*H high heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1055	0.70	1082	0.79	1109	0.87	1132	0.93	1156	1.01	1180	1.09	1205	1.17	1228	1.25	1252	1.33	1275	1.41
3600	1180	0.98	1205	1.07	1229	1.16	1252	1.25	1272	1.33	1293	1.40	1315	1.49	1337	1.59	1358	1.68	1379	1.77
4000	1305	1.32	1328	1.42	1350	1.52	1372	1.63	1392	1.73	1410	1.80	1429	1.89	1448	1.99	1468	2.09	1488	2.19
4400	1432	1.73	1452	1.84	1473	1.96	1493	2.07	1512	2.19	1530	2.29	1547	2.38	1564	2.47	1581	2.57	1599	2.68
4800	1558	2.22	1577	2.34	1596	2.47	1615	2.59	1633	2.72	1650	2.84	1667	2.96	1683	3.06	1698	3.15	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1298	1.49	1322	1.59	1348	1.69	1374	1.81	1398	1.91	1421	2.00	1443	2.10	1465	2.20	1488	2.30	1511	2.41
3600	1400	1.86	1421	1.95	1441	2.04	1462	2.14	1483	2.24	1507	2.36	1530	2.48	1552	2.61	1574	2.72	1594	2.83
4000	1507	2.29	1526	2.39	1544	2.49	1563	2.59	1582	2.69	1601	2.79	1619	2.90	1639	3.01	1657	3.13	1678	3.26
4400	1617	2.79	1635	2.91	1652	3.02	1669	3.13	1687	3.23	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 88. Direct drive evaporator fan performance - 10 tons standard efficiency with gas heat -YSC120F3,4,W*H high heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1054	0.72	1084	0.79	1112	0.86	1141	0.95	1168	1.04	1193	1.12	1218	1.20	1242	1.28	1266	1.38	1289	1.48
3600	1179	1.00	1205	1.08	1231	1.16	1256	1.24	1282	1.35	1306	1.45	1329	1.54	1352	1.63	1374	1.72	1395	1.82
4000	1304	1.35	1328	1.44	1352	1.53	1375	1.62	1397	1.71	1420	1.83	1442	1.94	1463	2.04	1484	2.14	1504	2.24
4400	1429	1.78	1452	1.88	1474	1.98	1495	2.07	1515	2.17	1536	2.27	1556	2.40	1577	2.53	1597	2.64	1616	2.75
4800	1555	2.29	1576	2.40	1596	2.51	1616	2.61	1635	2.72	1654	2.82	1673	2.93	1692	3.07	—	—	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1314	1.57	1338	1.65	1362	1.74	1385	1.84	1407	1.93	1430	2.02	1453	2.12	1477	2.22	1498	2.32	1521	2.44
3600	1416	1.92	1436	2.03	1458	2.14	1480	2.24	1501	2.33	1522	2.43	1543	2.54	1563	2.64	1583	2.74	1604	2.85
4000	1524	2.35	1543	2.46	1562	2.56	1581	2.68	1600	2.80	1619	2.93	1638	3.04	1658	3.15	1677	3.26	1695	3.37
4400	1635	2.87	1653	2.97	1671	3.09	1689	3.21	—	—	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Evaporator Fan Speed (rpm), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 138, p. 182 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4 downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]												1-hp Standard Motor & Drive							
600*	—	—	468	0.07	547	0.1	616	0.13	677	0.17	729	0.21	776	0.24	819	0.28	860	0.32	898	0.36
720*	386	0.05	490	0.08	570	0.12	638	0.16	697	0.12	752	0.24	802	0.28	848	0.33	889	0.37	928	0.42
840*	416	0.06	511	0.10	593	0.14	661	0.19	719	0.23	773	0.28	823	0.32	870	0.37	914	0.42	954	0.47
960	449	0.08	534	0.12	614	0.17	683	0.22	742	0.27	795	0.32	845	0.37	891	0.42	935	0.47	977	0.53
1080	483	0.11	561	0.15	635	0.20	704	0.25	765	0.30	818	0.36	868	0.42	913	0.47	957	0.53	998	0.59
1200	518	0.14	592	0.18	658	0.23	725	0.29	786	0.35	842	0.41	891	0.47	936	0.53	979	0.59	1019	0.66
1320	555	0.17	625	0.22	686	0.27	747	0.33	807	0.39	862	0.46	914	0.53	959	0.59	1002	0.66	1043	0.73
1440	592	0.21	658	0.27	717	0.32	772	0.38	828	0.44	882	0.51	933	0.58	980	0.66	1025	0.73	1065	0.80

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
600*	934	0.41	968	0.45	1001	0.49	1034	0.54	1066	0.59
720*	965	0.46	999	0.51	1032	0.56	1065	0.61	1095	0.66
840*	992	0.53	1029	0.58	1063	0.63	1096	0.68	1125	0.74
960	1016	0.59	1054	0.65	1089	0.70	1124	0.76	1155	0.82
1080	1036	0.65	1075	0.72	1111	0.78	1146	0.84	1180	0.91
1200	1058	0.72	1095	0.78	1131	0.85	1167	0.92	1201	0.99
1320	1082	0.80	1119	0.87	1153	0.94	1188	1.01	1221	1.08
1440	1104	0.88	1141	0.95	1176	1.03	1211	1.10	1243	1.18
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 600, 720, and 840 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 90. Belt drive evaporator fan performance - 3 tons high efficiency - THC036E3,E4 horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]												1-hp Standard Motor & Drive							
600*	372	0.04	472	0.06	552	0.09	619	0.12	678	0.15	730	0.18	778	0.22	823	0.25	865	0.29	904	0.32
720*	398	0.05	496	0.08	575	0.11	643	0.15	702	0.18	756	0.22	805	0.26	849	0.29	892	0.33	931	0.37
840*	422	0.06	524	0.10	598	0.13	665	0.17	726	0.22	780	0.26	829	0.30	875	0.34	918	0.39	957	0.43
960	449	0.08	552	0.12	626	0.16	689	0.20	748	0.25	802	0.30	852	0.35	898	0.39	942	0.44	982	0.49
1080	482	0.10	576	0.14	654	0.19	716	0.24	772	0.29	825	0.34	874	0.39	921	0.45	964	0.50	1005	0.55
1200	517	0.13	600	0.17	681	0.23	744	0.28	799	0.33	850	0.39	898	0.44	943	0.50	987	0.56	1028	0.62
1320	554	0.16	627	0.20	705	0.27	773	0.33	828	0.38	877	0.44	923	0.50	967	0.56	1010	0.62	1052	0.69
1440	590	0.20	657	0.24	728	0.30	797	0.37	855	0.44	904	0.50	950	0.56	993	0.63	1034	0.69	1074	0.76

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
600*	941	0.36	977	0.4	1010	0.44	1042	0.48	1074	0.53
720*	969	0.41	1005	0.45	1040	0.5	1073	0.54	1105	0.5
840*	995	0.47	1031	0.52	1066	0.56	1100	0.61	1131	0.66
960	1020	0.54	1057	0.59	1092	0.64	1126	0.69	1158	0.74
1080	1045	0.61	1082	0.67	1116	0.72	1151	0.77	1183	0.83
1200	1067	0.68	1104	0.74	1141	0.80	1174	0.86	1207	0.92
1320	1091	0.75	1127	0.82	1163	0.88	1198	0.95	1230	1.02
1440	1112	0.83	1150	0.90	1186	0.97	1221	1.04	1254	1.11
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 600, 720, and 840 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 91. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4,EW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	605	0.15	671	0.19	730	0.23	784	0.27	835	0.31	881	0.36	924	0.41	965	0.45
1080	—	—	563	0.14	630	0.17	693	0.22	751	0.26	804	0.31	854	0.35	901	0.40	946	0.46	986	0.50
1200	—	—	596	0.17	659	0.21	718	0.25	773	0.30	825	0.35	875	0.40	921	0.45	964	0.51	1005	0.56
1320	555	0.16	629	0.20	689	0.25	745	0.29	797	0.34	848	0.40	897	0.45	941	0.51	984	0.56	1026	0.62
1440	593	0.20	663	0.25	721	0.29	775	0.34	824	0.39	873	0.45	919	0.51	963	0.57	1006	0.63	1046	0.69

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive[b]									
960	1004	0.50	1039	0.55	1073	0.59	1105	0.64	1137	0.69
1080	1025	0.56	1063	0.61	1098	0.66	1132	0.72	1163	0.77
1200	1046	0.62	1082	0.67	1119	0.73	1153	0.79	1187	0.85
1320	1064	0.68	1103	0.74	1139	0.80	1174	0.86	1207	0.93
1440	1085	0.75	1123	0.81	1159	0.88	1193	0.94	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 92. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4,EW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	613	0.15	679	0.20	736	0.24	788	0.28	837	0.32	886	0.37	930	0.42	973	0.47
1080	—	—	561	0.14	636	0.18	702	0.23	761	0.28	812	0.32	860	0.37	904	0.42	947	0.47	991	0.52
1200	—	—	589	0.16	661	0.21	726	0.26	784	0.31	836	0.37	884	0.42	929	0.47	970	0.52	1011	0.58
1320	—	—	619	0.20	687	0.25	750	0.30	807	0.36	859	0.41	909	0.47	953	0.53	995	0.59	1034	0.65
1440	585	0.19	651	0.24	715	0.29	775	0.35	831	0.40	883	0.47	931	0.53	976	0.59	1019	0.66	1058	0.72

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1014	0.53	1051	0.58	1087	0.63	1121	0.68	1155	0.74
1080	1031	0.58	1071	0.64	1108	0.69	1142	0.75	1177	0.81
1200	1049	0.63	1087	0.69	1124	0.75	1161	0.82	1195	0.88
1320	1071	0.70	1107	0.76	1143	0.82	1178	0.89	1213	0.96
1440	1095	0.78	1130	0.84	1166	0.91	1199	0.97	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 93. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4,EW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	609	0.15	671	0.19	730	0.24	785	0.28	835	0.33	881	0.37	924	0.42	966	0.47
1080	—	—	572	0.14	638	0.18	697	0.23	752	0.27	805	0.32	855	0.37	900	0.42	945	0.47	986	0.53
1200	—	—	606	0.18	668	0.22	725	0.26	778	0.31	827	0.36	876	0.42	922	0.47	964	0.52	1007	0.58
1320	573	0.17	641	0.22	700	0.26	754	0.31	805	0.36	853	0.41	898	0.47	942	0.53	985	0.59	1026	0.65
1440	613	0.21	677	0.27	733	0.31	786	0.36	835	0.42	881	0.47	925	0.53	966	0.59	1007	0.65	1047	0.71

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1004	0.52	1041	0.58	1076	0.63	1109	0.68	1142	0.73
1080	1026	0.58	1063	0.64	1098	0.69	1133	0.75	1165	0.81
1200	1046	0.64	1083	0.70	1120	0.76	1154	0.82	1187	0.88
1320	1065	0.71	1103	0.77	1139	0.83	1175	0.90	1207	0.96
1440	1086	0.78	1123	0.84	1160	0.91	1194	0.98	1227	1.05
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 94. Belt drive evaporator fan performance - 3 tons high efficiency - YHC036E3,E4,EW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
960	—	—	—	—	621	0.15	685	0.20	745	0.24	799	0.29	849	0.33	894	0.38	936	0.42	975	0.47
1080	—	—	580	0.14	649	0.19	711	0.23	768	0.28	821	0.32	871	0.38	917	0.43	960	0.48	1000	0.53
1200	—	—	613	0.18	679	0.22	738	0.27	793	0.32	845	0.37	892	0.42	939	0.48	982	0.53	1024	0.59
1320	574	0.17	647	0.22	710	0.26	767	0.31	820	0.37	870	0.42	917	0.48	962	0.53	1004	0.59	1046	0.66
1440	612	0.21	682	0.26	742	0.31	797	0.37	849	0.42	897	0.48	943	0.54	986	0.60	1028	0.66	1068	0.72

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
960	1012	0.52	1048	0.57	1082	0.62	1116	0.67	1148	0.72
1080	1039	0.59	1075	0.64	1109	0.69	1142	0.74	1173	0.80
1200	1063	0.65	1100	0.71	1134	0.77	1168	0.83	1199	0.88
1320	1085	0.72	1122	0.78	1159	0.85	1193	0.91	1226	0.98
1440	1107	0.79	1145	0.86	1181	0.93	1216	1.00	1248	1.07
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK71x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 95. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,E4,EW, F3, F4, FW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]												1-hp Standard Motor & Drive							
800*	—	—	444	0.06	526	0.09	598	0.13	663	0.16	720	0.20	772	0.24	820	0.28	863	0.32	905	0.36
960*	—	—	462	0.08	542	0.12	610	0.15	672	0.19	731	0.23	785	0.27	835	0.32	881	0.36	923	0.41
1120*	399	0.07	485	0.11	559	0.14	626	0.18	687	0.22	743	0.26	795	0.31	846	0.36	893	0.41	937	0.46
1280	429	0.10	510	0.14	581	0.17	644	0.21	703	0.26	757	0.30	809	0.35	857	0.40	903	0.45	947	0.51
1440	459	0.12	537	0.17	604	0.21	665	0.26	722	0.30	774	0.35	823	0.40	871	0.45	916	0.51	959	0.56
1600	492	0.16	567	0.21	630	0.26	689	0.31	742	0.36	793	0.41	842	0.46	887	0.51	932	0.57	974	0.63
1760	526	0.20	597	0.26	658	0.31	713	0.36	765	0.42	814	0.47	860	0.53	905	0.58	947	0.64	989	0.70
1920	561	0.25	627	0.31	687	0.37	739	0.43	790	0.49	838	0.55	882	0.60	924	0.66	966	0.72	1006	0.79

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
800*	942	0.40	980	0.44	1015	0.48	1047	0.53	1079	0.569
960*	964	0.46	1002	0.50	1038	0.55	1072	0.60	1105	0.65
1120*	979	0.51	1019	0.56	1055	0.62	1091	0.67	1125	0.725
1280	990	0.56	1031	0.62	1069	0.68	1105	0.74	1140	0.80
1440	999	0.62	1040	0.68	1079	0.75	1115	0.81	1152	0.87
1600	1014	0.69	1051	0.75	1089	0.82	1125	0.88	1162	0.95
1760	1028	0.77	1066	0.83	1104	0.90	1139	0.96	1175	1.04
1920	1044	0.85	1083	0.92	1118	0.99	1155	1.06	1188	1.13
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 800, 960, and 1120 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 96. Belt drive evaporator fan performance - 4 tons high efficiency - THC048E3,E4,EW, F3, F4, FW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]										1-hp Standard Motor & Drive									
800*	368	0.05	481	0.08	562	0.12	623	0.16	677	0.20	730	0.24	780	0.28	825	0.32	870	0.37	911	0.41
960*	392	0.06	501	0.10	587	0.15	655	0.20	711	0.24	759	0.29	804	0.33	848	0.38	891.1	0.43	932	0.48
1120*	420	0.08	519	0.13	607	0.18	679	0.23	740	0.29	792	0.34	837	0.39	879	0.45	918	0.50	955	0.55
1280	449	0.11	541	0.16	625	0.21	700	0.27	764	0.33	819	0.40	868	0.46	912	0.52	951	0.58	989	0.64
1440	482	0.14	567	0.19	644	0.25	718	0.32	783	0.38	841	0.45	892	0.52	939	0.59	982	0.66	1022	0.73
1600	518	0.18	596	0.24	668	0.30	736	0.36	801	0.44	861	0.51	915	0.59	963	0.67	1007	0.74	1048	0.82
1760	555	0.23	625	0.29	694	0.35	757	0.42	820	0.50	879	0.58	933	0.66	984	0.74	1030	0.83	1072	0.91
1920	593	0.28	657	0.35	723	0.42	783	0.49	840	0.57	897	0.65	951	0.74	1001	0.83	1049	0.92	1093	1.01
											1-hp Standard Motor & Field Supplied High Static Drive[b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
800*	950	0.46	986	0.51	1024	0.56	1057	0.602	1090	0.65
960*	972	0.53	1009	0.58	1045	0.64	1080	0.692	1111	0.74
1120*	994	0.61	1031	0.67	1067	0.73	1101	0.786	1134	0.85
1280	1023	0.70	1057	0.76	1090	0.82	1123	0.89	1157	0.95
1440	1057	0.80	1091	0.86	1123	0.93	1155	1.00	1184	1.07
1600	1087	0.90	1123	0.97	1156	1.05	1187	1.12	1217	1.20
1760	1113	1.00	1150	1.08	1184	1.17	1219	1.25	1250	1.34
1920	1135	1.10	1174	1.19	1210	1.29	1244	1.38	1278	1.47
	1-hp Standard Motor & Field Supplied High Static Drive									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 800, 960, and 1120 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 97. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4,EW,F3,F4,FW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	—	—	589	0.18	652	0.23	710	0.27	763	0.32	812	0.37	858	0.42	905	0.47	949	0.53
1440	—	—	546	0.18	614	0.22	675	0.27	731	0.32	782	0.37	830	0.42	876	0.48	919	0.53	961	0.59
1600	—	—	575	0.22	641	0.27	699	0.32	752	0.37	803	0.43	851	0.49	895	0.54	938	0.60	978	0.66
1760	538	0.21	606	0.27	668	0.32	725	0.38	776	0.44	826	0.50	872	0.56	916	0.62	958	0.68	997	0.75
1920	574	0.27	638	0.32	696	0.38	752	0.45	802	0.51	850	0.57	895	0.63	938	0.70	978	0.77	1018	0.84

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	993	0.58	1032	0.64	1070	0.70	1107	0.76	1143	0.82
1440	1003	0.65	1043	0.71	1082	0.77	1118	0.84	1154	0.90
1600	1017	0.72	1054	0.78	1092	0.85	1129	0.92	1165	0.98
1760	1036	0.81	1073	0.88	1108	0.94	1142	1.01	1177	1.08
1920	1056	0.91	1092	0.98	1127	1.04	1160	1.11	1193	1.19
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK74x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 98. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4,EW,F3,F4,FW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	554	0.16	622	0.21	685	0.26	741	0.31	794	0.36	842	0.42	888	0.47	931	0.53	973	0.59
1440	—	—	590	0.21	652	0.26	712	0.31	767	0.36	818	0.42	866	0.48	911	0.54	953	0.60	995	0.67
1600	561	0.21	628	0.26	686	0.32	741	0.37	794	0.43	844	0.49	890	0.55	935	0.62	976	0.68	1017	0.75
1760	602	0.27	667	0.33	722	0.38	773	0.44	822	0.50	871	0.57	917	0.63	960	0.70	1001	0.77	1040	0.84
1920	644	0.33	706	0.40	760	0.46	809	0.52	855	0.59	900	0.66	944	0.73	987	0.80	1027	0.87	1066	0.95[b]

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1012	0.65	1052	0.72	1090	0.78	1127	0.84	1162	0.91
1440	1032	0.73	1070	0.80	1107	0.87	1142	0.94	1175	1.01
1600	1055	0.82	1093	0.89	1128	0.96	1162	1.03	1195	1.11
1760	1078	0.91	1114	0.99	1150	1.06	1183	1.14	1217	1.22
1920	1103	1.02	1139	1.10	1174	1.18	1207	1.26	1239	1.34
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK74x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 99. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4,F3,EW,F4,FW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	528	0.15	600	0.19	661	0.23	717	0.28	771	0.33	821	0.38	870	0.43	915	0.48	959	0.54
1440	—	—	556	0.18	626	0.23	687	0.28	740	0.33	790	0.38	839	0.43	886	0.49	930	0.54	974	0.61
1600	—	—	586	0.22	651	0.28	712	0.34	766	0.39	814	0.44	860	0.50	904	0.55	947	0.61	990	0.68
1760	554	0.22	619	0.28	680	0.33	738	0.39	792	0.46	841	0.52	884	0.58	926	0.63	967	0.69	1007	0.76
1920	592	0.28	653	0.34	710	0.39	765	0.46	817	0.53	866	0.60	912	0.67	953	0.73	992	0.79	1028	0.85

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1003	0.60	1045	0.66	1083	0.71	1121	0.77	1156	0.83
1440	1013	0.66	1054	0.73	1094	0.79	1132	0.86	1168	0.92
1600	1029	0.74	1069	0.81	1106	0.87	1142	0.94	1177	1.01
1760	1046	0.82	1084	0.89	1121	0.96	1156	1.03	1191	1.11
1920	1066	0.92	1103	0.99	1139	1.06	1174	1.14	1206	1.21
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK74x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 100. Belt drive evaporator fan performance - 4 tons high efficiency - YHC048E3,E4,EW,F3,F4,FW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1280	—	—	561	0.16	626	0.20	684	0.25	739	0.29	792	0.34	842	0.39	890	0.45	935	0.50	977	0.56
1440	—	—	595	0.20	659	0.25	715	0.30	766	0.35	816	0.40	864	0.45	909	0.51	953	0.57	995	0.63
1600	561	0.20	628	0.25	694	0.31	748	0.36	798	0.41	843	0.47	888	0.52	932	0.58	974	0.64	1015	0.71
1760	603	0.26	665	0.31	727	0.37	782	0.43	830	0.49	875	0.54	917	0.60	958	0.67	998	0.73	1038	0.80
1920	646	0.32	705	0.38	761	0.44	816	0.52	864	0.58	908	0.63	949	0.70	988	0.76	1026	0.83	1063	0.90[b]

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1280	1018	0.62	1058	0.68	1095	0.74	1131	0.81	1166	0.87
1440	1036	0.69	1075	0.76	1113	0.82	1148	0.89	1183	0.96
1600	1055	0.77	1093	0.84	1130	0.91	1166	0.98	1201	1.05
1760	1075	0.86	1113	0.93	1149	1.00	1184	1.08	1219	1.15
1920	1100	0.97	1135	1.04	1171	1.11	1204	1.19	1237	1.26
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK74x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 101. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,E4,EW,F3,F4,FW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]														1-hp Standard Motor & Drive					
1000*	379	0.06	469	0.09	546	0.12	614	0.16	676	0.20	732	0.24	784	0.28	833	0.33	879	0.37	922	0.42
1200*	416	0.09	498	0.12	571	0.158	635	0.20	694	0.24	749	0.28	800	0.33	849	0.38	894	0.43	938	0.48
1400*	456	0.12	531	0.16	599	0.20	662	0.25	717	0.29	769	0.34	820	0.39	867	0.44	911	0.50	955	0.56
1600	499	0.16	570	0.21	631	0.25	691	0.31	745	0.36	794	0.41	842	0.46	887	0.52	930	0.57	972	0.63
1800	544	0.22	609	0.27	667	0.32	721	0.37	773	0.43	823	0.49	868	0.55	911	0.61	953	0.67	992	0.73
2000	589	0.29	650	0.35	706	0.40	755	0.46	804	0.52	851	0.58	897	0.65	938	0.71	978	0.77	1017	0.84
2200	636	0.37	692	0.43	745	0.50	793	0.56	838	0.62	882	0.68	925	0.75	967	0.83	1007	0.90	1044	0.97
2400	683	0.47	736	0.54	785	0.61	833	0.68	875	0.74	916	0.81	956	0.88	996	0.95	1036	1.03	1073	1.11

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1000*	962	0.46	1002	0.51	1040	0.56	1076	0.61	1111	0.66
1200*	979	0.54	1018	0.50	1055	0.64	1091	0.70	1126	0.75
1400*	996	0.61	1035	0.67	1072	0.73	1107	0.79	1143	0.85
1600	1013	0.70	1051	0.76	1088	0.82	1124	0.89	1160	0.96
1800	1031	0.79	1070	0.86	1106	0.93	1142	1.00	1176	1.07
2000	1054	0.91	1091	0.98	1126	1.04	1161	1.12	1195	1.19
2200	1080	1.04	1115	1.11	1148	1.18	1183	1.26	1215	1.33
2400	1108	1.19	1142	1.27	1176	1.34	1207	1.42	1238	1.49
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 1000, 1200, and 1400 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 102. Belt drive evaporator fan performance - 5 tons high efficiency - THC060E3,E4,EW,F3,F4,FW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]												1-hp Standard Motor & Drive							
1000*	412	0.07	517	0.10	601	0.15	664	0.19	716	0.23	764	0.27	810	0.31	853	0.35	897	0.40	939	0.44
1200*	456	0.10	542	0.14	631	0.19	702	0.24	758	0.29	808	0.33	851	0.38	892	0.43	932	0.48	970	0.53
1400*	502	0.14	580	0.18	654	0.23	730	0.29	795	0.35	848	0.41	893	0.46	936	0.52	974	0.58	1010	0.63
1600	550	0.19	622	0.24	688	0.29	753	0.35	820	0.41	881	0.49	930	0.55	975	0.62	1015	0.68	1052	0.75
1800	598	0.25	668	0.31	728	0.37	785	0.42	843	0.49	903	0.56	960	0.64	1010	0.72	1053	0.80	1092	0.87
2000	648	0.33	714	0.39	771	0.46	824	0.52	875	0.58	927	0.66	982	0.74	1034	0.83	1082	0.91	1126	1.00
2200	699	0.42	762	0.50	816	0.57	866	0.63	914	0.70	960	0.77	1006	0.85	1056	0.94	1106	1.03	1152	1.13
2400	750	0.54	810	0.61	863	0.69	911	0.77	956	0.84	999	0.92	1042	1.00	1084	1.08	1130	1.17	1176	1.27
											1-hp Standard Motor & Field Supplied High Static Drive [b]									

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1000*	977	0.49	1014	0.53	1049	0.58	1084	0.63	1118	0.68
1200*	1006	0.58	1042	0.63	1078	0.69	1112	0.74	1145	0.80
1400*	1045	0.69	1078	0.74	1111	0.8	1144	0.86	1174	0.92
1600	1087	0.81	1121	0.88	1152	0.94	1182	1.00	1213	1.07
1800	1129	0.95	1163	1.02	1195	1.09	1226	1.16	1255	1.23
2000	1165	1.08	1201	1.17	1236	1.25	1268	1.33	1298	1.41
2200	1196	1.23	1237	1.33	1271	1.42	1305	1.51	1338	1.60
2400	1219	1.37	1261	1.48	1301	1.58	1339	1.69	1373	1.79
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:

1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. Data does not include pressure drop due to reheat coil.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

* For 1000, 1200, and 1400 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

(a) BAYLSDR006AB
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 103. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4,F3,EW,F4,FW*L,M low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	—	—	583	0.22	648	0.27	705	0.32	755	0.37	804	0.42	852	0.47	897	0.53	941	0.59	982	0.65
1800	—	—	623	0.28	683	0.34	740	0.40	790	0.45	835	0.50	879	0.56	922	0.62	964	0.68	1004	0.74
2000	605	0.30	665	0.36	721	0.42	774	0.48	824	0.55	870	0.61	911	0.66	951	0.73	991	0.79	1028	0.86
2200	653	0.39	709	0.45	762	0.51	812	0.58	859	0.65	905	0.72	948	0.79	986	0.86	1022	0.92	1057	0.99
2400	701	0.49	756	0.56	803	0.63	851	0.70	896	0.77	939	0.85	982	0.93	1022	1.00	1057	1.07	1092	1.14

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1024	0.71	1061	0.77	1099	0.83	1136	0.90	1170	0.96
1800	1044	0.81	1081	0.87	1118	0.94	1155	1.01	1188	1.08
2000	1067	0.93	1103	1.00	1139	1.07	1175	1.14	1209	1.22
2200	1094	1.06	1129	1.13	1163	1.21	1197	1.29	1229	1.36
2400	1124	1.21	1157	1.29	1189	1.37	1222	1.45	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 104. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4,F3,EW,F4,FW*L,M low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	566	0.21	633	0.26	694	0.31	747	0.36	798	0.41	848	0.47	895	0.52	939	0.58	981	0.65	1021	0.71
1800	621	0.28	681	0.33	739	0.39	790	0.45	837	0.51	884	0.57	929	0.63	971	0.69	1013	0.76	1052	0.82
2000	676	0.37	731	0.43	785	0.49	836	0.56	880	0.62	923	0.69	966	0.75	1006	0.82	1046	0.89	1084	0.96
2200	732	0.48	784	0.54	832	0.61	881	0.68	927	0.75	967	0.83	1005	0.90	1044	0.97	1082	1.04	1118	1.12
2400	789	0.61	838	0.68	882	0.75	927	0.82	972	0.90	1012	0.98	1049	1.06	1085	1.14	1121	1.22	1155	1.30[b]

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1060	0.78	1097	0.84	1135	0.91	1169	0.98	1203	1.04
1800	1090	0.89	1126	0.96	1161	1.04	1195	1.11	1229	1.19
2000	1121	1.03	1156	1.10	1192	1.18	1224	1.26	1257	1.34
2200	1155	1.19	1189	1.27	1223	1.34	1256	1.42	—	—
2400	1190	1.38	1223	1.46	—	—	—	—	—	—
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 105. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4,EW,F3,F4,FW*H high gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	—	—	595	0.22	658	0.27	716	0.32	768	0.37	817	0.42	864	0.47	910	0.53	954	0.59	996	0.65
1800	—	—	637	0.29	697	0.34	752	0.40	802	0.45	849	0.51	893	0.56	936	0.62	979	0.68	1019	0.75
2000	621	0.31	680	0.36	737	0.42	790	0.49	838	0.55	884	0.61	927	0.67	967	0.73	1007	0.80	1046	0.86
2200	671	0.40	726	0.46	779	0.52	829	0.59	876	0.66	919	0.72	962	0.79	1002	0.86	1039	0.93	1076	1.00
2400	721	0.50	773	0.57	822	0.64	870	0.71	916	0.78	957	0.86	998	0.93	1036	1.00	1074	1.08	1109	1.15

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1037	0.72	1076	0.78	1114	0.85	1151	0.91	1184	0.98
1800	1058	0.82	1096	0.88	1133	0.95	1169	1.02	1204	1.10
2000	1083	0.93	1120	1.00	1155	1.07	1189	1.15	1224	1.23
2200	1111	1.07	1146	1.14	1181	1.22	1214	1.29	1248	1.37
2400	1144	1.23	1177	1.30	1210	1.38	1241	1.46	1274	1.54
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Evaporator Fan Performance

Table 106. Belt drive evaporator fan performance - 5 tons high efficiency - YHC060E3,E4,EW,F3,F4,FW*H high gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Field Supplied Low Static Drive[a]										1-hp Standard Motor & Drive									
1600	570	0.21	639	0.26	703	0.32	760	0.37	809	0.41	854	0.46	894	0.52	936	0.58	977	0.64	1019	0.70
1800	620	0.28	689	0.34	746	0.40	801	0.46	851	0.52	896	0.57	937	0.62	974	0.68	1011	0.75	1048	0.81
2000	671	0.36	741	0.44	792	0.50	844	0.57	893	0.64	939	0.71	980	0.76	1019	0.82	1054	0.88	1087	0.95
2200	723	0.46	791	0.55	843	0.62	889	0.69	936	0.77	981	0.85	1022	0.92	1061	0.99	1097	1.05	1131	1.11
2400	776	0.58	841	0.68	895	0.76	937	0.84	981	0.91	1023	1.00	1064	1.09	1103	1.17	1140	1.25	1173	1.31[b]

Continued

	External Static Pressure (Inches of Water)									
	1.10		1.20		1.30		1.40		1.50	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Drive									
1600	1057	0.76	1096	0.83	1133	0.90	1167	0.96	1201	1.03
1800	1086	0.88	1123	0.95	1159	1.02	1192	1.09	1226	1.17
2000	1119	1.02	1153	1.09	1188	1.17	1221	1.24	1253	1.32
2200	1162	1.18	1193	1.25	1223	1.33	1253	1.41	1284	1.49
2400	1206	1.38	1236	1.44	1266	1.52	1294	1.61	1320	1.69
	1-hp Standard Motor & Field Supplied High Static Drive[b]									

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils. No accessories or options are included in pressure drop data.
3. Data does not include pressure drop due to reheat coil.
4. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
5. 1-hp Fan Motor Heat (MBh) = 2.7672 x Fan bhp + 0.4705.
6. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) Field Supplied Fan Sheave AK69x3/4" required. Field Supplied Belt may be necessary.
(b) Field Supplied Fan Sheave AK41x3/4" required. Field Supplied Belt may be necessary.

Table 107. Belt drive evaporator fan performance - 6 tons high efficiency - THC072E3,E4,EW,F3,F4,FW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]																			
1920	—	—	437	0.23	491	0.29	545	0.36	594	0.44	637	0.51	677	0.58	715	0.65	750	0.72	784	0.80
2160	407	0.22	465	0.29	513	0.36	563	0.43	610	0.51	654	0.60	694	0.68	731	0.76	766	0.84	799	0.92
2400	439	0.29	494	0.37	540	0.44	583	0.51	628	0.60	671	0.69	711	0.78	748	0.87	783	0.96	817	1.05
2640	472	0.36	523	0.45	568	0.54	609	0.62	647	0.70	688	0.79	728	0.89	765	0.99	801	1.09	834	1.19
2880	505	0.45	553	0.55	597	0.65	637	0.74	673	0.82	708	0.91	746	1.01	782	1.12	817	1.23	851	1.34
													1-hp Standard Motor & Drive							

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive																			
1920	815	0.87	847	0.94	875	1.01	903	1.08	930	1.16	958	1.23	984	1.31	1008	1.38	1033	1.46	1056	1.53
2160	832	1.00	863	1.08	891	1.16	920	1.24	947	1.32	974	1.41	999	1.49	1024	1.57	1048	1.65	1071	1.73
2400	848	1.14	878	1.23	908	1.32	935	1.41	963	1.50	989	1.59	1015	1.68	1040	1.77	1064	1.86	1088	1.95
2640	865	1.29	895	1.39	924	1.48	953	1.59	979	1.68	1006	1.78	1031	1.88	1056	1.98	1080	2.08	1104	2.18
2880	882	1.45	912	1.56	941	1.66	969	1.77	996	1.88	1021	1.98	1047	2.09	1072	2.20	—	—	—	—
				2-hp Oversized Motor & Drive																

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA

Evaporator Fan Performance

Table 108. Belt drive evaporator fan performance - 6 tons high efficiency - THC072E3,E4,EW,F3,F4,FW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]														1-hp Standard Motor & Drive					
1920	422	0.21	490	0.28	551	0.37	595	0.44	634	0.51	670	0.59	704	0.66	735	0.74	765	0.82	794	0.89
2160	461	0.28	514	0.35	581	0.46	629	0.55	667	0.62	702	0.70	735	0.78	767	0.87	796	0.96	824	1.04
2400	501	0.37	547	0.44	604	0.54	661	0.66	701	0.75	735	0.84	768	0.93	798	1.02	827	1.11	855	1.21
2640	541	0.47	584	0.55	629	0.64	685	0.77	734	0.90	769	1.00	800	1.09	831	1.19	860	1.29	886	1.39
2880	582	0.59	623	0.69	661	0.76	708	0.88	759	1.03	803	1.17	834	1.28	864	1.39	892	1.49	919	1.59[b]

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive																			
1920	821	0.98	847	1.06	873	1.14	896	1.22	920	1.30	943	1.39	965	1.47	986	1.55	1006	1.64	1028	1.73
2160	851	1.13	876	1.22	902	1.31	925	1.39	949	1.49	971	1.58	993	1.67	1014	1.76	1035	1.85	1055	1.95
2400	881	1.30	907	1.40	932	1.49	955	1.59	978	1.69	1001	1.79	1022	1.88	1043	1.98	1064	2.09	1084	2.19
2640	913	1.49	938	1.59	962	1.70	986	1.80	1009	1.91	1030	2.02	1052	2.12	1074	2.23	—	—	—	—
2880	944	1.70	969	1.81	993	1.92	1016	2.04	1040	2.15	1061	2.26	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA
(b) 2-HP Oversized Motor & Drive

Table 109. Belt drive evaporator fan performance - 6 tons high efficiency - YHC072E3,E4,EW,F3,F4,FW low & medium gas heat downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]																			
1920	393	0.18	450	0.23	503	0.29	549	0.35	590	0.41	628	0.47	663	0.53	696	0.59	726	0.65	755	0.71
2160	427	0.24	480	0.30	529	0.37	574	0.43	615	0.50	652	0.57	687	0.63	719	0.70	750	0.77	779	0.84
2400	463	0.31	511	0.38	557	0.45	601	0.52	641	0.60	678	0.67	712	0.75	744	0.82	774	0.90	803	0.97
2640	500	0.39	544	0.47	587	0.55	627	0.63	666	0.71	703	0.79	737	0.87	769	0.96	798	1.04	827	1.12
2880	538	0.50	579	0.58	618	0.66	656	0.75	693	0.84	729	0.93	762	1.01	794	1.10	824	1.19	852	1.28
Continued													1-hp Standard Motor & Drive							

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive																			
1920	783	0.77	811	0.84	836	0.90	861	0.96	885	1.02	908	1.08	930	1.14	953	1.20	973	1.26	995	1.33
2160	806	0.90	833	0.97	859	1.04	883	1.11	907	1.18	931	1.25	952	1.31	974	1.38	996	1.45	1016	1.52
2400	830	1.05	856	1.12	883	1.20	906	1.27	930	1.35	952	1.42	976	1.50	998	1.58	1018	1.65	1039	1.73
2640	854	1.20	880	1.29	906	1.37	930	1.45	953	1.53	976	1.62	998	1.70	1020	1.78	1041	1.86	1062	1.95
2880	879	1.37	905	1.47	929	1.55	953	1.64	977	1.73	1000	1.83	1022	1.91	1044	2.01	1063	2.09	1084	2.18
					2-hp Oversized Motor & Drive															

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA

Evaporator Fan Performance

Table 110. Belt drive evaporator fan performance - 6 tons high efficiency - YHC072E3,E4,EW,F3,F4,FW low & medium gas heat horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]														1-hp Standard Motor & Drive					
1920	462	0.25	517	0.32	565	0.38	609	0.45	648	0.52	684	0.59	719	0.66	751	0.73	782	0.80	811	0.87
2160	503	0.33	557	0.41	602	0.49	644	0.56	682	0.64	718	0.71	751	0.79	783	0.87	813	0.95	842	1.03
2400	546	0.43	598	0.53	641	0.61	680	0.69	717	0.78	753	0.86	785	0.95	815	1.03	845	1.12	873	1.21
2640	590	0.56	640	0.66	681	0.76	719	0.85	754	0.94	788	1.03	820	1.12	850	1.21	879	1.31	906	1.41
2880	636	0.71	681	0.82	722	0.93	758	1.02	793	1.13	824	1.22	855	1.32	885	1.42	913	1.52	940	1.62[b]

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
	1-hp Standard Motor & Drive																			
1920	838	0.94	865	1.01	890	1.08	915	1.16	939	1.23	962	1.30	985	1.37	1007	1.45	1027	1.52	1049	1.59
2160	870	1.11	895	1.19	920	1.27	945	1.35	969	1.43	991	1.51	1014	1.59	1035	1.67	1057	1.75	1077	1.83
2400	901	1.30	926	1.38	952	1.47	975	1.56	999	1.65	1022	1.74	1044	1.82	1066	1.91	1086	2.00	1108	2.09
2640	933	1.51	959	1.60	982	1.69	1007	1.79	1029	1.89	1053	1.99	1075	2.08	1096	2.18	1116	2.27	—	—
2880	966	1.73	991	1.84	1015	1.94	1039	2.05	1062	2.16	1084	2.26	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA
(b) 2-hp Oversized Motor & Drive

Table 111. Belt drive evaporator fan performance - 6 tons high efficiency - YHC072E3,E4,EW,F3,F4,FW high gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]														1-hp Standard Motor & Drive					
1920	412	0.20	472	0.26	524	0.32	571	0.38	612	0.44	651	0.51	686	0.57	719	0.64	750	0.71	779	0.77
2160	454	0.27	504	0.33	553	0.40	599	0.47	640	0.54	678	0.61	712	0.68	745	0.75	776	0.83	805	0.90
2400	495	0.36	534	0.41	585	0.50	627	0.57	668	0.65	705	0.73	739	0.81	771	0.88	802	0.96	831	1.05
2640	535	0.46	570	0.52	617	0.61	657	0.69	696	0.77	732	0.86	767	0.95	799	1.03	829	1.12	858	1.20
2880	575	0.58	612	0.65	646	0.72	690	0.83	725	0.92	761	1.01	795	1.11	827	1.20	857	1.29	884	1.38

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
															1-hp Standard Motor & Drive					
1920	808	0.84	835	0.91	862	0.97	887	1.04	910	1.11	935	1.18	957	1.25	979	1.32	1001	1.39	1022	1.46
2160	834	0.98	860	1.05	886	1.13	911	1.20	935	1.28	959	1.35	982	1.43	1004	1.51	1025	1.58	1046	1.66
2400	859	1.13	886	1.21	912	1.29	936	1.37	960	1.45	984	1.54	1007	1.63	1028	1.71	1050	1.79	1071	1.88
2640	885	1.29	911	1.38	937	1.47	962	1.56	985	1.65	1009	1.74	1032	1.84	1054	1.93	1074	2.01	1095	2.11
2880	913	1.48	938	1.57	963	1.67	988	1.77	1012	1.86	1035	1.96	1057	2.06	1079	2.16	1099	2.26	—	—
			2-hp Oversized Motor & Drive																	

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA

Evaporator Fan Performance

Table 112. Belt drive evaporator fan performance - 6 tons high efficiency - YHC072E3,E4,EW,F3,F4,FW high gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
	1-hp Standard Motor & Low Static Drive Accessory Kit[a]												1-hp Standard Motor & Drive							
1920	476	0.27	528	0.34	575	0.40	619	0.47	660	0.54	697	0.62	731	0.69	763	0.77	793	0.84	821	0.92
2160	520	0.36	571	0.44	614	0.51	655	0.59	694	0.67	731	0.75	765	0.83	796	0.91	826	1.00	854	1.08
2400	566	0.47	615	0.56	656	0.65	694	0.73	730	0.81	765	0.90	799	0.99	830	1.08	860	1.17	888	1.27
2640	612	0.61	659	0.71	698	0.81	734	0.89	769	0.98	802	1.08	834	1.17	865	1.27	894	1.37	922	1.47
2880	660	0.77	703	0.88	742	0.99	777	1.09	808	1.18	840	1.28	870	1.38	899	1.49	929	1.60	957	1.70[b]

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
													1-hp Standard Motor & Drive							
1920	849	0.99	876	1.07	900	1.14	925	1.22	949	1.30	972	1.38	994	1.45	1015	1.53	1037	1.61	1057	1.69
2160	881	1.17	908	1.25	933	1.34	957	1.42	980	1.51	1003	1.59	1026	1.68	1046	1.76	1067	1.85	1088	1.94
2400	915	1.36	941	1.46	966	1.55	990	1.64	1012	1.73	1035	1.83	1057	1.92	1079	2.02	1099	2.11	1119	2.21
2640	949	1.57	975	1.67	999	1.78	1023	1.88	1045	1.98	1068	2.09	1090	2.19	1110	2.29	—	—	—	—
2880	983	1.81	1009	1.92	1034	2.03	1056	2.14	1080	2.26	—	—	—	—	—	—	—	—	—	—
	2-hp Oversized Motor & Drive																			

Notes:
1. For Standard Evaporator Fan Speed (rpm), reference Table 131, p. 179.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. 1-HP Fan Motor Heat (MBH) = 2.829 x Fan BHP +.4024. 2-HP Fan Motor Heat (MBH) = 3.000 x Fan BHP +.5000.
5. Factory supplied motors, in equipment, are definite purpose motors, specifically designed and tested to operate 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.

(a) BAYLSDR009AA
(b) 2-hp Oversized Motor & Drive

Table 113. Direct drive evaporator fan performance - 7½ tons high efficiency - THC092F3,F4,FW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500*	525	0.10	580	0.13	628	0.17	675	0.22	722	0.26	767	0.31	808	0.36	847	0.42	884	0.47	919	0.53
1800*	609	0.15	656	0.19	701	0.24	740	0.28	780	0.33	820	0.39	858	0.44	897	0.50	933	0.56	968	0.63
2100*	697	0.21	736	0.26	776	0.32	814	0.37	848	0.43	883	0.48	917	0.54	951	0.61	984	0.67	1018	0.74
2400	786	0.30	820	0.36	855	0.42	890	0.48	923	0.54	954	0.61	984	0.67	1014	0.73	1044	0.80	1074	0.87
2700	876	0.42	907	0.48	937	0.54	968	0.61	999	0.68	1030	0.75	1058	0.82	1084	0.89	1110	0.96	1137	1.03
3000	967	0.56	995	0.62	1022	0.69	1050	0.76	1078	0.84	1106	0.91	1133	0.99	1159	1.07	1184	1.15	1207	1.23
3300	1058	0.73	1084	0.80	1108	0.87	1133	0.95	1159	1.03	1184	1.11	1209	1.19	1235	1.28	1259	1.37	1283	1.46
3600	1150	0.93	1173	1.01	1196	1.09	1219	1.17	1242	1.25	1265	1.34	1288	1.43	1312	1.52	1335	1.61	1357	1.71

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
1500*	952	0.59	983	0.64	1015	0.71	1043	0.77	1072	0.83	1101	0.90	1127	0.96	1154	1.03	1179	1.10	1203	1.16
1800*	1000	0.69	1032	0.75	1063	0.82	1091	0.88	1119	0.95	1147	1.02	1173	1.09	1200	1.17	1225	1.24	1249	1.32
2100*	1050	0.80	1080	0.87	1111	0.95	1139	1.02	1167	1.09	1194	1.17	1222	1.25	1246	1.32	1271	1.40	1296	1.48
2400	1103	0.95	1132	1.02	1162	1.09	1190	1.17	1217	1.25	1244	1.33	1269	1.41	1295	1.50	1319	1.58	1345	1.67
2700	1164	1.11	1191	1.19	1217	1.27	1243	1.35	1268	1.43	1295	1.52	1321	1.61	1346	1.69	1369	1.78	1393	1.87
3000	1231	1.30	1255	1.38	1280	1.47	1304	1.56	1328	1.65	1351	1.74	1375	1.83	1397	1.92	1420	2.01	1443	2.10
3300	1305	1.54	1326	1.63	1348	1.71	1369	1.80	1391	1.88	1413	1.98	1435	2.08	1456	2.18	1479	2.28	1500	2.38
3600	1379	1.80	1401	1.90	1422	2.00	1441	2.09	1461	2.18	1480	2.27	1501	2.36	1521	2.46	1542	2.57	1561	2.67

Notes:

1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 1500, 1800, and 2100 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton.
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton.

Evaporator Fan Performance

Table 114. Direct drive evaporator fan performance - 7½ tons high efficiency - THC092F3,F4,FW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1500*	521	0.09	573	0.13	624	0.17	670	0.21	714	0.26	758	0.31	799	0.35	837	0.40	873	0.45	906	0.49
1800*	604	0.14	650	0.19	693	0.23	736	0.28	775	0.33	813	0.38	850	0.43	887	0.49	922	0.55	956	0.61
2100*	691	0.21	731	0.26	769	0.31	806	0.36	842	0.42	878	0.48	912	0.54	943	0.59	974	0.65	1007	0.72
2400	778	0.30	814	0.35	849	0.41	882	0.47	914	0.53	946	0.59	977	0.66	1008	0.73	1037	0.79	1065	0.85
2700	867	0.41	899	0.47	930	0.53	961	0.60	990	0.66	1019	0.73	1047	0.79	1076	0.87	1104	0.95	1131	1.02
3000	956	0.54	985	0.61	1014	0.68	1042	0.75	1069	0.83	1096	0.90	1122	0.97	1147	1.04	1173	1.12	1198	1.21
3300	1046	0.71	1073	0.78	1099	0.86	1125	0.94	1150	1.02	1175	1.09	1199	1.17	1222	1.25	1246	1.33	1269	1.41
3600	1137	0.91	1162	0.99	1185	1.07	1209	1.15	1232	1.24	1256	1.32	1279	1.41	1301	1.49	1323	1.58	1344	1.66

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
1500*	939	0.54	970	0.58	1000	0.63	1029	0.67	1058	0.72	1085	0.76	1110	0.81	1137	0.85	1162	0.90	1185	0.94
1800*	987	0.66	1019	0.72	1048	0.77	1077	0.83	1104	0.88	1131	0.94	1157	0.99	1183	1.05	1208	1.10	1231	1.16
2100*	1038	0.79	1069	0.85	1098	0.92	1127	0.99	1153	1.05	1180	1.12	1205	1.18	1231	1.25	1254	1.31	1279	1.38
2400	1093	0.92	1120	0.99	1149	1.07	1176	1.15	1204	1.22	1229	1.30	1256	1.38	1280	1.45	1303	1.52	1328	1.60
2700	1157	1.09	1182	1.17	1207	1.24	1231	1.32	1257	1.40	1281	1.49	1307	1.57	1331	1.66	1354	1.74	1378	1.83
3000	1223	1.29	1248	1.38	1272	1.46	1295	1.54	1318	1.62	1341	1.70	1362	1.79	1384	1.87	1406	1.97	1429	2.06
3300	1292	1.50	1316	1.60	1339	1.69	1361	1.78	1383	1.87	1405	1.96	1427	2.05	1446	2.14	1467	2.23	1488	2.33
3600	1366	1.75	1386	1.84	1408	1.94	1429	2.04	1451	2.15	1472	2.25	1492	2.35	1513	2.45	1532	2.54	1551	2.64

Notes:

1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 1500, 1800, and 2100 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton.
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton.

Table 115. Direct drive evaporator fan performance - 7½ tons high efficiency - YHC092F3,F4,FW low & medium gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2400	788	0.29	821	0.35	858	0.41	892	0.48	925	0.54	958	0.61	989	0.68	1019	0.75	1048	0.82	1074	0.89
2700	877	0.40	907	0.47	939	0.54	971	0.60	1001	0.67	1031	0.75	1061	0.82	1090	0.90	1117	0.98	1143	1.06
3000	966	0.53	996	0.61	1022	0.68	1052	0.76	1081	0.83	1108	0.91	1134	0.99	1162	1.07	1188	1.16	1214	1.25
3300	1055	0.69	1086	0.77	1108	0.85	1134	0.94	1162	1.02	1187	1.10	1212	1.19	1237	1.28	1261	1.37	1286	1.46
3600	1145	0.88	1175	0.97	1198	1.06	1219	1.15	1244	1.24	1269	1.33	1292	1.42	1315	1.51	1337	1.60	1360	1.70

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2400	1101	0.97	1126	1.04	1151	1.12	1174	1.20	1198	1.28	1221	1.36	1242	1.44	1264	1.53	1285	1.61	1306	1.69
2700	1169	1.14	1193	1.22	1217	1.30	1240	1.39	1262	1.47	1285	1.56	1307	1.65	1327	1.73	1348	1.82	1368	1.91
3000	1238	1.33	1262	1.42	1285	1.51	1308	1.60	1330	1.69	1352	1.78	1372	1.87	1392	1.97	1413	2.07	1432	2.16
3300	1309	1.55	1333	1.65	1355	1.74	1378	1.84	1398	1.93	1419	2.03	1440	2.14	1460	2.23	1479	2.33	1498	2.44
3600	1382	1.80	1404	1.90	1426	2.01	1447	2.11	1469	2.21	1489	2.32	1509	2.42	1529	2.53	1548	2.64	1567	2.75

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 116. Direct drive evaporator fan performance - 7½ tons high efficiency - YHC092F3,F4,FW low & medium gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2400	765	0.27	815	0.35	854	0.42	892	0.49	930	0.57	966	0.65	1004	0.74	1039	0.83	1073	0.92	1106	1.01
2700	847	0.37	895	0.45	934	0.53	967	0.61	1002	0.69	1036	0.78	1067	0.87	1101	0.97	1133	1.06	1166	1.17
3000	931	0.48	975	0.57	1014	0.67	1046	0.75	1077	0.84	1108	0.94	1139	1.03	1168	1.13	1196	1.23	1227	1.34
3300	1015	0.62	1056	0.72	1095	0.82	1127	0.92	1156	1.02	1183	1.12	1211	1.22	1239	1.32	1267	1.43	1293	1.54
3600	1100	0.79	1138	0.90	1175	1.01	1207	1.12	1236	1.22	1262	1.33	1287	1.43	1313	1.54	1338	1.66	1365	1.77

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2400	1137	1.11	1166	1.21	1195	1.31	1224	1.41	1251	1.51	1278	1.62	1303	1.72	1328	1.83	1352	1.94	1376	2.05
2700	1196	1.27	1225	1.37	1254	1.48	1281	1.59	1308	1.70	1334	1.81	1359	1.92	1384	2.04	1408	2.15	1431	2.27
3000	1256	1.45	1285	1.56	1313	1.67	1339	1.79	1366	1.90	1392	2.03	1417	2.15	1441	2.27	1465	2.39	1487	2.51
3300	1319	1.65	1346	1.77	1373	1.89	1401	2.01	1427	2.14	1452	2.27	1475	2.39	1500	2.52	1523	2.65	1545	2.78
3600	1389	1.89	1412	2.01	1436	2.13	1462	2.26	1487	2.39	1511	2.52	1535	2.66	1559	2.79	1581	2.93	1605	3.07

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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 117. Direct drive evaporator fan performance - 7½ tons high efficiency - YHC092F3,F4,FW high gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2400	789	0.29	820	0.35	857	0.41	892	0.47	924	0.54	956	0.60	987	0.67	1017	0.74	1046	0.81	1073	0.88
2700	879	0.40	907	0.47	938	0.54	970	0.60	1001	0.67	1030	0.74	1059	0.82	1088	0.89	1114	0.97	1141	1.05
3000	969	0.53	998	0.61	1022	0.68	1051	0.76	1080	0.83	1107	0.91	1134	0.99	1160	1.07	1186	1.15	1212	1.23
3300	1059	0.70	1088	0.77	1109	0.86	1134	0.94	1161	1.02	1186	1.10	1212	1.18	1236	1.27	1260	1.36	1284	1.45
3600	1149	0.89	1178	0.97	1200	1.06	1219	1.15	1243	1.24	1267	1.33	1291	1.42	1314	1.51	1337	1.60	1359	1.70

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2400	1099	0.96	1125	1.03	1150	1.11	1174	1.19	1197	1.26	1219	1.34	1241	1.43	1263	1.51	1284	1.59	1304	1.67
2700	1167	1.13	1192	1.21	1216	1.29	1238	1.37	1262	1.46	1283	1.54	1304	1.62	1326	1.72	1347	1.81	1366	1.89
3000	1236	1.32	1260	1.40	1283	1.49	1306	1.58	1328	1.67	1350	1.76	1370	1.85	1391	1.95	1411	2.04	1431	2.14
3300	1307	1.54	1330	1.63	1353	1.73	1375	1.82	1397	1.92	1417	2.02	1438	2.11	1458	2.21	1477	2.31	1496	2.41
3600	1380	1.79	1402	1.89	1424	1.99	1445	2.09	1466	2.19	1486	2.29	1507	2.40	1526	2.50	1545	2.61	1564	2.72

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 118. Direct drive evaporator fan performance - 7½ tons high efficiency - YHC092F3,F4,FW high gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2400	768	0.28	818	0.35	858	0.42	897	0.50	936	0.58	973	0.66	1011	0.75	1046	0.84	1080	0.93	1112	1.03
2700	851	0.37	898	0.46	937	0.54	972	0.62	1007	0.71	1042	0.79	1075	0.89	1109	0.98	1142	1.08	1173	1.18
3000	935	0.49	979	0.58	1018	0.67	1050	0.76	1082	0.86	1114	0.95	1145	1.05	1176	1.15	1205	1.25	1236	1.36
3300	1020	0.63	1060	0.73	1098	0.83	1131	0.93	1160	1.03	1188	1.14	1217	1.24	1246	1.35	1275	1.46	1301	1.56
3600	1105	0.80	1143	0.91	1178	1.02	1212	1.13	1240	1.24	1267	1.35	1293	1.46	1319	1.57	1346	1.69	1372	1.81

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2400	1143	1.12	1172	1.22	1202	1.32	1229	1.42	1255	1.53	1282	1.63	1307	1.74	1333	1.85	1356	1.96	1379	2.07
2700	1203	1.28	1232	1.39	1260	1.50	1288	1.61	1315	1.72	1340	1.83	1365	1.95	1388	2.05	1412	2.17	1437	2.30
3000	1266	1.47	1294	1.59	1321	1.70	1348	1.81	1374	1.93	1399	2.05	1424	2.17	1448	2.29	1472	2.42	1495	2.54
3300	1329	1.68	1356	1.80	1383	1.92	1410	2.04	1435	2.17	1460	2.29	1484	2.42	1508	2.55	1531	2.68	1553	2.81
3600	1398	1.92	1423	2.04	1448	2.17	1474	2.30	1498	2.43	1523	2.57	1547	2.70	1569	2.83	1592	2.97	1614	3.11

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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 119. Direct drive evaporator fan performance - 8½ tons high efficiency - THC102F3,F4,FW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1700*	583	0.13	632	0.17	678	0.22	722	0.26	762	0.32	799	0.37	834	0.42	867	0.48	897	0.53	927	0.59
2040*	677	0.19	730	0.25	762	0.30	801	0.35	840	0.41	874	0.47	908	0.53	940	0.60	969	0.66	998	0.72
2380*	775	0.29	819	0.35	861	0.42	887	0.47	920	0.53	954	0.60	985	0.67	1016	0.74	1044	0.81	1073	0.88
2720	874	0.41	912	0.48	953	0.55	986	0.63	1009	0.69	1034	0.76	1066	0.83	1094	0.91	1122	0.99	1149	1.07
3060	974	0.56	1008	0.64	1042	0.72	1079	0.80	1108	0.89	1129	0.96	1148	1.03	1175	1.11	1202	1.20	1228	1.28
3400	1075	0.75	1106	0.84	1136	0.92	1167	1.01	1201	1.11	1227	1.20	1247	1.28	1264	1.36	1284	1.44	1309	1.54
3740	1177	0.99	1204	1.07	1232	1.17	1259	1.26	1288	1.36	1319	1.47	1345	1.57	1364	1.67	1380	1.75	1395	1.84
4080	1279	1.27	1304	1.36	1330	1.46	1355	1.56	1381	1.66	1407	1.77	1436	1.90	1461	2.01	1479	2.11	1495	2.21

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
1700*	956	0.65	983	0.71	1009	0.77	1034	0.84	1058	0.90	1083	0.97	1107	1.04	1129	1.10	1151	1.17	1172	1.24
2040*	1026	0.79	1052	0.86	1078	0.93	1102	0.99	1128	1.07	1150	1.14	1173	1.21	1195	1.28	1217	1.36	1238	1.44
2380*	1099	0.95	1124	1.03	1150	1.10	1173	1.18	1198	1.26	1220	1.33	1242	1.41	1264	1.50	1286	1.58	1306	1.66
2720	1175	1.15	1200	1.23	1224	1.31	1247	1.39	1270	1.48	1292	1.56	1314	1.65	1336	1.74	1356	1.82	1377	1.91
3060	1253	1.37	1277	1.46	1301	1.55	1323	1.64	1345	1.73	1367	1.82	1389	1.92	1409	2.01	1429	2.10	1450	2.20
3400	1333	1.63	1357	1.73	1379	1.83	1402	1.93	1423	2.02	1444	2.12	1465	2.22	1485	2.32	1504	2.42	1524	2.52
3740	1414	1.93	1437	2.03	1460	2.14	1481	2.25	1503	2.36	1522	2.46	1542	2.56	1563	2.67	1582	2.78	1601	2.89
4080	1510	2.30	1524	2.40	1541	2.50	1562	2.61	1583	2.73	1603	2.84	1623	2.96	1642	3.07	1661	3.19	1679	3.31

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 1700, 2040, and 2380 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

Evaporator Fan Performance

Table 120. Direct drive evaporator fan performance - 8½ tons high efficiency - THC102F3,F4,FW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
1700*	603	0.14	665	0.20	726	0.27	781	0.33	833	0.41	880	0.48	924	0.55	966	0.63	1006	0.72	1043	0.80
2040*	695	0.21	749	0.28	804	0.36	856	0.44	903	0.51	948	0.60	991	0.68	1032	0.77	1070	0.86	1107	0.95
2380*	791	0.31	846	0.40	888	0.47	935	0.56	979	0.65	1022	0.74	1061	0.83	1100	0.93	1137	1.03	1173	1.13
2720	888	0.44	938	0.53	981	0.62	1018	0.71	1059	0.81	1099	0.91	1137	1.02	1174	1.13	1207	1.23	1242	1.34
3060	987	0.60	1032	0.69	1075	0.81	1109	0.90	1143	1.00	1179	1.11	1216	1.23	1250	1.35	1284	1.47	1316	1.59
3400	1087	0.80	1128	0.90	1168	1.02	1206	1.15	1233	1.24	1264	1.36	1297	1.48	1330	1.60	1363	1.74	1392	1.87
3740	1188	1.04	1224	1.15	1262	1.27	1298	1.41	1332	1.55	1355	1.65	1382	1.76	1413	1.90	1442	2.04	1473	2.18
4080	1290	1.32	1323	1.45	1358	1.57	1391	1.71	1423	1.87	1454	2.01	1476	2.12	1498	2.24	1527	2.40	1554	2.54

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
1700*	1078	0.88	1113	0.97	1145	1.06	1177	1.15	1209	1.25	1238	1.34	1266	1.43	1295	1.54	1322	1.63	1349	1.74
2040*	1142	1.05	1175	1.14	1207	1.24	1239	1.34	1269	1.44	1299	1.54	1327	1.65	1355	1.76	1382	1.86	1409	1.97
2380*	1207	1.23	1240	1.34	1272	1.44	1303	1.55	1333	1.67	1362	1.78	1390	1.89	1416	2.00	1444	2.12	1469	2.23
2720	1276	1.45	1308	1.57	1340	1.69	1370	1.80	1399	1.92	1427	2.04	1454	2.16	1481	2.28	1507	2.41	1534	2.54
3060	1347	1.71	1378	1.83	1408	1.95	1437	2.08	1466	2.21	1493	2.33	1521	2.47	1548	2.60	1574	2.73	1600	2.87
3400	1423	2.00	1453	2.13	1481	2.27	1507	2.39	1535	2.53	1562	2.67	1590	2.81	1616	2.96	1641	3.10	1667	3.25
3740	1501	2.33	1528	2.47	1557	2.62	1584	2.76	1610	2.91	1636	3.06	1660	3.20	1685	3.35	—	—	—	—
4080	1582	2.69	1609	2.85	1635	3.01	1661	3.17	1686	3.32	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 1700, 2040, and 2380 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

Table 121. Direct drive evaporator fan performance - 8½ tons high efficiency - YHC102F3,F4,FW low & medium gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2720	913	0.48	950	0.55	984	0.63	1017	0.70	1047	0.77	1073	0.85	1100	0.92	1128	0.99	1154	1.07	1180	1.15
3060	1017	0.66	1052	0.74	1084	0.83	1113	0.91	1143	1.00	1169	1.08	1194	1.16	1217	1.24	1241	1.32	1266	1.40
3400	1122	0.88	1155	0.98	1184	1.07	1212	1.16	1239	1.25	1265	1.35	1290	1.44	1312	1.53	1334	1.62	1355	1.71
3740	1227	1.15	1259	1.26	1286	1.36	1312	1.46	1337	1.56	1362	1.66	1386	1.77	1409	1.87	1430	1.97	1450	2.07
4080	1333	1.47	1363	1.59	1389	1.70	1414	1.81	1437	1.92	1460	2.03	1482	2.14	1504	2.26	1526	2.37	1547	2.48

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2720	1206	1.23	1231	1.31	1254	1.39	1277	1.47	1299	1.55	1322	1.63	1343	1.71	1364	1.80	1384	1.89	1404	1.97
3060	1290	1.49	1313	1.58	1337	1.67	1359	1.75	1380	1.84	1401	1.93	1422	2.02	1443	2.12	1463	2.21	1482	2.30
3400	1376	1.80	1398	1.89	1421	1.99	1442	2.08	1463	2.18	1483	2.28	1503	2.37	1524	2.48	1543	2.58	1563	2.68
3740	1469	2.16	1489	2.26	1508	2.36	1528	2.46	1548	2.57	1568	2.67	1587	2.78	1606	2.88	1625	2.99	1644	3.10
4080	1566	2.59	1583	2.69	1601	2.80	1619	2.91	1636	3.01	1654	3.12	1673	3.24	1692	3.35	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 122. Direct drive evaporator fan performance - 8½ tons high efficiency - YHC102F3,F4,FW low & medium gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2720	925	0.49	975	0.60	1020	0.70	1061	0.80	1098	0.90	1141	1.02	1179	1.13	1218	1.26	1259	1.40	1296	1.53
3060	1028	0.67	1074	0.79	1117	0.90	1155	1.02	1191	1.13	1226	1.25	1262	1.37	1297	1.50	1331	1.63	1366	1.77
3400	1133	0.89	1175	1.02	1213	1.15	1251	1.28	1286	1.40	1317	1.53	1351	1.66	1379	1.78	1415	1.94	1445	2.08
3740	1239	1.16	1276	1.29	1313	1.44	1348	1.58	1381	1.72	1413	1.86	1441	2.00	1472	2.15	1499	2.28	1528	2.43
4080	1344	1.48	1379	1.62	1414	1.78	1446	1.93	1479	2.09	1508	2.24	1537	2.39	1564	2.54	1591	2.70	1619	2.86

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2720	1332	1.66	1369	1.80	1403	1.94	1437	2.08	1470	2.23	1502	2.38	1533	2.53	1564	2.69	1594	2.84	1623	3.00
3060	1402	1.93	1436	2.08	1469	2.22	1501	2.37	1533	2.53	1564	2.68	1596	2.85	1625	3.01	1654	3.18	1685	3.36
3400	1476	2.22	1507	2.38	1539	2.54	1571	2.71	1602	2.88	1631	3.04	1660	3.21	—	—	—	—	—	—
3740	1559	2.60	1586	2.75	1615	2.91	1643	3.08	1672	3.25	—	—	—	—	—	—	—	—	—	—
4080	1642	3.00	1669	3.17	1699	3.36	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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 123. Direct drive evaporator fan performance - 8½ tons high efficiency - YHC102F3,F4,FW high gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2720	917	0.49	957	0.56	993	0.64	1021	0.71	1050	0.78	1077	0.85	1105	0.93	1132	1.00	1159	1.08	1184	1.16
3060	1022	0.67	1059	0.76	1092	0.84	1122	0.92	1147	1.01	1173	1.09	1197	1.17	1221	1.25	1246	1.33	1271	1.42
3400	1128	0.90	1161	0.99	1192	1.09	1222	1.18	1248	1.27	1270	1.36	1294	1.46	1316	1.55	1338	1.63	1360	1.72
3740	1235	1.18	1264	1.28	1294	1.38	1322	1.49	1349	1.59	1372	1.69	1392	1.79	1413	1.89	1435	1.99	1455	2.09
4080	1342	1.51	1368	1.62	1397	1.73	1423	1.84	1448	1.96	1472	2.07	1494	2.18	1512	2.29	1531	2.40	1551	2.51

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2720	1209	1.24	1233	1.32	1256	1.41	1279	1.49	1301	1.57	1323	1.66	1344	1.75	1364	1.83	1384	1.92	1404	2.01
3060	1295	1.51	1318	1.60	1340	1.69	1362	1.78	1384	1.87	1404	1.96	1424	2.05	1444	2.15	1465	2.25	1483	2.34
3400	1382	1.82	1405	1.91	1426	2.01	1447	2.11	1468	2.21	1488	2.31	1507	2.41	1528	2.51	1547	2.62	1565	2.72
3740	1474	2.18	1494	2.28	1515	2.39	1534	2.49	1555	2.60	1574	2.70	1593	2.81	1612	2.92	1630	3.03	1648	3.14
4080	1571	2.62	1589	2.72	1607	2.83	1625	2.93	1643	3.05	1662	3.16	1680	3.27	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 124. Direct drive evaporator fan performance - 8½ tons high efficiency - YHC102F3,F4,FW high gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2720	932	0.50	984	0.61	1030	0.72	1072	0.83	1119	0.95	1157	1.06	1196	1.18	1236	1.31	1277	1.45	1314	1.59
3060	1035	0.68	1083	0.81	1127	0.93	1166	1.05	1204	1.17	1244	1.30	1282	1.44	1315	1.56	1351	1.71	1387	1.86
3400	1140	0.91	1184	1.04	1225	1.18	1264	1.32	1297	1.44	1332	1.58	1367	1.72	1405	1.88	1436	2.02	1466	2.16
3740	1245	1.18	1286	1.32	1324	1.47	1360	1.62	1395	1.78	1426	1.91	1456	2.06	1489	2.22	1523	2.39	1556	2.56
4080	1351	1.50	1389	1.66	1425	1.82	1459	1.98	1492	2.15	1524	2.31	1552	2.47	1578	2.61	1608	2.79	1639	2.96

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2720	1349	1.72	1383	1.86	1415	1.99	1447	2.13	1477	2.27	1506	2.41	1536	2.56	1564	2.70	1592	2.85	1618	2.99
3060	1423	2.01	1457	2.16	1489	2.31	1520	2.46	1549	2.61	1579	2.76	1608	2.92	1634	3.07	1663	3.23	—	—
3400	1497	2.32	1529	2.48	1562	2.66	1593	2.82	1625	3.00	1652	3.16	1681	3.33	—	—	—	—	—	—
3740	1582	2.70	1608	2.85	1638	3.03	1667	3.21	—	—	—	—	—	—	—	—	—	—	—	—
4080	1669	3.15	1699	3.33	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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 125. Direct drive evaporator fan performance - 10 tons high efficiency - THC120E3,E4,EW downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2000*	666	0.19	713	0.24	756	0.29	799	0.35	836	0.41	876	0.47	916	0.54	953	0.62	988	0.69	1021	0.77
2400*	780	0.29	822	0.35	860	0.42	895	0.48	933	0.55	966	0.62	997	0.69	1030	0.77	1063	0.85	1096	0.93
2800*	897	0.44	933	0.51	969	0.58	1001	0.65	1031	0.73	1063	0.81	1094	0.90	1122	0.98	1148	1.05	1176	1.14
3200	1014	0.63	1047	0.71	1079	0.79	1110	0.88	1138	0.96	1164	1.04	1191	1.13	1219	1.22	1247	1.32	1272	1.42
3600	1133	0.87	1163	0.96	1191	1.06	1220	1.15	1247	1.24	1272	1.33	1296	1.42	1319	1.52	1343	1.62	1368	1.73
4000	1252	1.17	1280	1.28	1306	1.38	1332	1.48	1356	1.58	1381	1.68	1404	1.78	1426	1.89	1447	1.99	1468	2.10
4400	1372	1.54	1397	1.65	1422	1.76	1445	1.87	1468	1.99	1491	2.10	1514	2.21	1535	2.32	1555	2.44	1575	2.55
4800	1492	1.98	1516	2.10	1538	2.22	1560	2.34	1582	2.47	1603	2.59	1624	2.71	1644	2.83	1665	2.95	1684	3.08

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2000*	1053	0.84	1084	0.92	1114	1.00	1142	1.09	1170	1.17	1197	1.25	1224	1.34	1248	1.43	1273	1.52	1297	1.61
2400*	1127	1.02	1158	1.11	1187	1.20	1215	1.29	1242	1.38	1268	1.47	1294	1.57	1319	1.66	1343	1.76	1367	1.86
2800*	1205	1.23	1234	1.32	1262	1.42	1290	1.52	1317	1.62	1342	1.72	1367	1.83	1392	1.93	1416	2.04	1439	2.14
3200	1295	1.51	1317	1.59	1342	1.69	1368	1.79	1393	1.90	1418	2.01	1443	2.12	1468	2.24	1491	2.35	1514	2.47
3600	1393	1.84	1418	1.96	1438	2.06	1458	2.15	1478	2.25	1500	2.35	1522	2.47	1545	2.59	1569	2.71	1591	2.83
4000	1490	2.21	1512	2.33	1535	2.45	1558	2.58	1578	2.70	1597	2.81	1615	2.92	1634	3.03	1652	3.14	1672	3.26
4400	1594	2.67	1613	2.79	1632	2.90	1653	3.03	1673	3.16	1694	3.31	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 2000, 2400, and 2800 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

Evaporator Fan Performance

Table 126. Direct drive evaporator fan performance - 10 tons high efficiency - THC120E3,E4,EW horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
2000*	685	0.20	740	0.27	796	0.34	847	0.42	894	0.50	940	0.58	984	0.67	1024	0.75	1063	0.84	1099	0.93
2400*	797	0.32	852	0.40	894	0.48	940	0.57	984	0.66	1027	0.75	1066	0.85	1105	0.94	1141	1.04	1177	1.14
2800*	911	0.47	961	0.57	1005	0.67	1039	0.75	1079	0.85	1119	0.96	1155	1.06	1193	1.18	1226	1.28	1259	1.40
3200	1029	0.68	1072	0.77	1114	0.89	1151	1.00	1179	1.09	1215	1.21	1250	1.33	1285	1.45	1316	1.57	1348	1.70
3600	1147	0.93	1185	1.04	1224	1.16	1260	1.30	1293	1.42	1316	1.51	1349	1.65	1379	1.78	1410	1.91	1442	2.05
4000	1267	1.25	1300	1.38	1335	1.49	1370	1.64	1402	1.79	1433	1.93	1453	2.02	1479	2.16	1509	2.31	1535	2.45
4400	1386	1.64	1417	1.77	1449	1.90	1481	2.04	1512	2.21	1541	2.37	1569	2.53	1591	2.65	1609	2.76	1637	2.93
4800	1506	2.09	1536	2.24	1563	2.40	1593	2.53	1622	2.69	1651	2.88	1677	3.06	—	—	—	—	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
2000*	1135	1.03	1169	1.12	1201	1.22	1233	1.32	1262	1.42	1292	1.52	1321	1.62	1349	1.73	1376	1.84	1402	1.94
2400*	1212	1.25	1245	1.35	1277	1.46	1307	1.57	1338	1.68	1367	1.79	1394	1.91	1421	2.02	1448	2.14	1473	2.25
2800*	1292	1.51	1324	1.62	1355	1.74	1386	1.87	1415	1.99	1443	2.11	1471	2.23	1497	2.35	1523	2.48	1550	2.61
3200	1380	1.83	1408	1.95	1437	2.07	1466	2.20	1495	2.34	1522	2.47	1550	2.61	1577	2.75	1602	2.88	1628	3.02
3600	1470	2.19	1498	2.32	1527	2.47	1554	2.61	1579	2.75	1605	2.89	1631	3.03	1657	3.18	1681	3.33	—	—
4000	1564	2.60	1592	2.76	1618	2.91	1644	3.07	1670	3.22	1695	3.38	—	—	—	—	—	—	—	—
4400	1661	3.09	1687	3.25	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:

1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

* For 2000, 2400, and 2800 CFM, unit application below 320 CFM/Ton are only applicable on T_C models only (No Gas Heat). See below for restrictions.
* Electric heaters restricted on applications below 320 CFM/Ton
* Dehumidification (Hot Gas Reheat) or TXV with Frostat™ and Crankcase Heaters are required on applications below 320 CFM/Ton

Table 127. Direct drive evaporator fan performance - 10 tons high efficiency - YHC120E3,E4,EW low & medium gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1036	0.65	1065	0.73	1088	0.81	1116	0.89	1143	0.98	1169	1.06	1195	1.14	1218	1.23	1244	1.32	1268	1.41
3600	1156	0.91	1186	1.00	1208	1.08	1229	1.17	1253	1.27	1278	1.36	1301	1.45	1325	1.54	1346	1.63	1368	1.73
4000	1277	1.22	1307	1.32	1329	1.42	1348	1.51	1367	1.62	1389	1.72	1411	1.82	1432	1.93	1453	2.03	1474	2.13
4400	1399	1.60	1427	1.71	1450	1.82	1469	1.93	1485	2.03	1503	2.15	1522	2.26	1543	2.37	1562	2.49	1582	2.60
4800	1521	2.06	1547	2.18	1571	2.30	1590	2.41	1606	2.53	1621	2.65	1636	2.77	1655	2.89	1674	3.02	1692	3.14

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1292	1.50	1317	1.59	1339	1.69	1361	1.78	1383	1.87	1403	1.97	1425	2.07	1445	2.17	1465	2.27	1484	2.37
3600	1391	1.83	1413	1.94	1435	2.04	1456	2.14	1477	2.25	1497	2.35	1517	2.46	1537	2.56	1555	2.67	1575	2.78
4000	1494	2.23	1514	2.34	1533	2.45	1553	2.56	1573	2.67	1592	2.79	1612	2.91	1631	3.02	1650	3.14	1668	3.26
4400	1602	2.71	1620	2.82	1638	2.93	1655	3.05	1673	3.17	1691	3.29	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 128. Direct drive evaporator fan performance - 10 tons high efficiency - YHC120E3,E4,EW low & medium gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1014	0.62	1054	0.72	1092	0.82	1125	0.92	1153	1.01	1180	1.11	1209	1.21	1237	1.32	1265	1.42	1291	1.53
3600	1131	0.86	1167	0.97	1202	1.08	1235	1.19	1263	1.30	1289	1.41	1313	1.52	1338	1.63	1364	1.74	1388	1.86
4000	1248	1.14	1281	1.27	1314	1.39	1345	1.51	1374	1.64	1400	1.76	1423	1.88	1445	2.00	1467	2.12	1490	2.25
4400	1367	1.49	1397	1.63	1427	1.77	1456	1.90	1484	2.04	1510	2.17	1534	2.31	1556	2.44	1576	2.58	1597	2.71
4800	1485	1.91	1514	2.06	1541	2.21	1568	2.35	1595	2.50	1620	2.65	1645	2.80	1667	2.95	1687	3.10	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1317	1.65	1345	1.76	1372	1.88	1398	2.00	1423	2.12	1448	2.25	1472	2.38	1496	2.50	1519	2.63	1541	2.76
3600	1413	1.98	1437	2.10	1460	2.22	1484	2.35	1509	2.49	1532	2.62	1555	2.75	1579	2.89	1602	3.03	1623	3.17
4000	1512	2.37	1535	2.50	1557	2.63	1579	2.77	1600	2.90	1621	3.04	1642	3.19	1664	3.33	1686	3.48	—	—
4400	1616	2.84	1637	2.98	1658	3.12	1678	3.26	1698	3.40	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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 129. Direct drive evaporator fan performance - 10 tons high efficiency - YHC120E3,E4,EW high gas heat, downflow airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1051	0.68	1081	0.76	1102	0.84	1126	0.92	1153	1.00	1179	1.08	1204	1.17	1229	1.25	1252	1.34	1276	1.42
3600	1175	0.95	1203	1.03	1225	1.12	1243	1.21	1266	1.31	1289	1.39	1313	1.49	1336	1.58	1358	1.67	1380	1.77
4000	1299	1.27	1326	1.37	1348	1.47	1366	1.57	1382	1.67	1403	1.77	1424	1.87	1445	1.97	1466	2.07	1487	2.18
4400	1423	1.67	1448	1.78	1471	1.89	1490	2.00	1505	2.11	1519	2.22	1538	2.33	1557	2.44	1577	2.55	1596	2.66
4800	1548	2.15	1571	2.27	1593	2.38	1612	2.50	1629	2.62	1642	2.74	1655	2.86	1672	2.99	1689	3.11	—	—

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1300	1.52	1323	1.61	1346	1.71	1368	1.80	1389	1.90	1410	1.99	1430	2.09	1450	2.19	1470	2.29	1489	2.38
3600	1401	1.87	1423	1.97	1444	2.07	1464	2.17	1485	2.27	1505	2.38	1524	2.48	1545	2.59	1563	2.70	1582	2.81
4000	1506	2.28	1526	2.39	1546	2.50	1564	2.60	1583	2.71	1602	2.82	1622	2.94	1640	3.06	1659	3.18	1676	3.29
4400	1615	2.77	1633	2.89	1652	3.01	1670	3.12	1687	3.24	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Evaporator Fan Performance

Table 130. Direct drive evaporator fan performance - 10 tons high efficiency - YHC120E3,E4,EW high gas heat, horizontal airflow

	External Static Pressure (Inches of Water)																			
	0.10		0.20		0.30		0.40		0.50		0.60		0.70		0.80		0.90		1.00	
cfm	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp	rpm	bhp
3200	1002	0.60	1043	0.70	1081	0.80	1113	0.89	1142	0.99	1171	1.09	1200	1.19	1230	1.30	1259	1.41	1287	1.52
3600	1118	0.83	1155	0.94	1190	1.05	1222	1.15	1250	1.26	1276	1.38	1302	1.49	1328	1.60	1354	1.72	1381	1.84
4000	1234	1.11	1268	1.23	1300	1.35	1331	1.47	1359	1.59	1385	1.71	1408	1.83	1431	1.96	1454	2.08	1478	2.21
4400	1350	1.45	1382	1.58	1412	1.72	1440	1.85	1468	1.98	1494	2.11	1517	2.24	1539	2.38	1560	2.52	1581	2.65
4800	1467	1.85	1497	2.00	1524	2.15	1551	2.29	1578	2.43	1603	2.57	1626	2.72	1648	2.87	1669	3.01	1688	3.16

Continued

	External Static Pressure (Inches of Water)																			
	1.10		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	rpm	bhp
3200	1315	1.63	1344	1.75	1370	1.87	1398	2.00	1424	2.12	1449	2.25	1473	2.38	1497	2.50	1521	2.64	1543	2.76
3600	1406	1.96	1432	2.08	1456	2.20	1482	2.33	1507	2.47	1531	2.60	1555	2.74	1579	2.88	1602	3.02	1623	3.16
4000	1502	2.34	1526	2.47	1549	2.60	1573	2.74	1595	2.88	1617	3.01	1640	3.16	1663	3.31	1685	3.46	—	—
4400	1602	2.79	1624	2.92	1645	3.06	1667	3.21	1689	3.36	—	—	—	—	—	—	—	—	—	—
4800	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Notes:
1. For Direct Drive Fan Speed (RPM), reference Table 136, p. 180.
2. Data includes pressure drop due to standard filters and wet coils.
3. Refer to Table 139, p. 183 to determine additional static pressure drop due to other options/accessories.
4. Direct Drive Fan Motor Heat (MBH) = 2.8623 x Fan BHP - 0.1504
5. 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.

Fan Performance

Table 131. Standard motor & sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	T/YSC036E	AK51x3/4”	N/A	765	835	905	975	1045	1115
4	T/YSC048E	AK49x3/4”	N/A	804	876	948	1020	1091	1163
5	T/YSC060E	AK44x3/4”	N/A	885	966	1049	1131	1212	1295
6	T/YSC072F	AK64x1”	N/A	723	779	835	890	946	1002
7½	T/YSC090F	AK59x1”	N/A	805	865	925	985	1045	1105
7½	T/YSC092F	AK59x1”	N/A	639	696	753	810	867	924
8½	T/YSC102F	AK64x1”	N/A	767	807	847	888	928	1036
3	T/YHC036E	AK51x3/4”	N/A	765	835	905	975	1045	1115
4	T/YHC048E	AK54x3/4”	N/A	729	794	860	926	911	1057
4	T/YHC048F	AK54x3/4”	N/A	729	794	860	926	911	1057
5	T/YHC060E	AK49x3/4”	N/A	801	871	942	1012	1083	1154
5	T/YHC060F	AK49x3/4”	N/A	801	871	942	1012	1083	1154
6	T/YHC072*	AK64x1”	N/A	728	784	840	896	952	1008

Note: Factory set at 3 turns open.

Table 132. Standard motor & low static drive accessory sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	T/YSC036E	AK71x3/4”	N/A	556	606	657	707	757	808
4	T/YSC048E	AK69x3/4”	N/A	N/A	624	675	727	779	832
5	T/YSC060E	AK61x3/4”	N/A	N/A	708	765	823	880	938
7½	T/YSC090F	AK74x1”	N/A	602	650	698	746	794	842
7½	TSC092F	AK99x1”	N/A	462	498	533	569	604	640
7½	TSC092F	AK79x1”	N/A	614	657	700	743	786	829
8½	TSC102F	AK99x1”	N/A	512	548	583	619	654	690
8½	TSC102F	AK79x1”	N/A	631	676	721	766	811	856
3	YHC036E	AK71x3/4”	N/A	556	607	657	707	758	808
3	THC036E	AK99x3/4”	N/A	385	424	462	501	539	578
4	YHC048E,F	AK71x3/4”	N/A	556	607	657	707	758	808
4	THC048E,F	AK99x3/4”	N/A	385	424	462	501	539	578
5	YHC060E,F	AK71x3/4”	N/A	556	607	657	707	758	808
5	THC060E,F	AK99x3/4”	N/A	385	424	462	501	539	578
6	YHC072E,F	AK79x1”	N/A	581	626	671	716	761	805
6	THC072E,F	AK99x1”	N/A	462	497	533	569	604	640

Note: Factory set at 3 turns open.

Fan Performance

Table 133. Standard motor & high static drive accessory sheave/fan speed (rpm)

Tons	Unit Model Number	Fan Sheave	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
3	T/YSC036E	AK41x3/4"	N/A	967	1040	1113	1187	1228	N/A
4	T/YSC048E	AK41x3/4"	N/A	957	1033	1110	1187	1263	N/A
6	T/YSC072F	AK56x1"	N/A	831	895	959	1022	1086	1150
3	T/YHC036E	AK41x3/4"	N/A	N/A	967	1040	1113	1187	N/A
4	T/YHC048E,F	AK41x3/4"	N/A	N/A	966	1048	1132	1215	N/A
5	T/YHC060E,F	AK41x3/4"	N/A	N/A	961	1041	1122	1203	N/A

Note: Factory set at 3 turns open.

Table 134. Oversized motor & drive sheave/fan speed (rpm)

Tons	Unit Model Number	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
6	T/YSC072F	AK56x1"	N/A	958	1022	1086	1150	1214
7½	T/YSC090F	AK56x1"	N/A	958	1022	1086	1150	1214
7½	T/YSC092F	AK64x1"	860	910	960	1010	1060	1110
8½	T/YSC102F	AK56x1"	998	1050	1103	1155	1207	1260
6	T/YHC072E,F	AK56x1"	N/A	885	948	1010	1073	1135

Notes: Factory set at 3 turns open.
* Indicates both standard and high efficiency units and both ReliaTel™ and Electromechanical controls.

Table 135. Oversized motor & high static drive sheave/fan speed (rpm)

Tons	Unit Model Number	6 Turns Open	5 Turns Open	4 Turns Open	3 Turns Open	2 Turns Open	1 Turn Open	Closed
6	T/YSC072F	AK54x1"	N/A	995	1061	1128	1194	1261
7½	T/YSC090F	BK52x1"	N/A	1127	1197	1268	1338	1409
7½	T/YSC092F	AK56x1"	986	1043	1099	1156	1212	1269

Notes: Factory set at 3 turns open.
* Indicates both standard and high efficiency units and both ReliaTel™ and Electromechanical controls.

Table 136. Direct drive plenum fan settings (rpm vs. voltage)[a],[b]

T/YHC092F, T/YHC102F, T/YSC120F, T/YHC120E	
Potentiometer Voltage	**Motor RPM**
1.25	217
1.5	312
1.75	362
2.0	427
2.25	479
2.50	543
2.75	605
3.00	668
3.25	732
3.50	797
3.75	863

continued on next page

Table 136. Direct drive plenum fan settings (rpm vs. voltage)[a],[b] (continued)

T/YHC092F, T/YHC102F, T/YSC120F, T/YHC120E	
Potentiometer Voltage	**Motor RPM**
4.00	929
4.25	995
4.50	1061
4.75	1126
5.00	1191
5.25	1253
5.50	1315
5.75	1374
6.00	1432
6.25	1487
6.50	1539
6.75	1588
7.00	1633
7.25	1675
7.50	1700

(a) See fan tables for unit rpm and cfm units.
(b) Factory setting is 5V.

Table 137. Outdoor sound power level - dB (ref. 10 - 12 W)

Tons	Unit Model Number	Octave Center Frequency								Overall dBA
		63	125	250	500	1000	2000	4000	8000	
3	T/YSC036E	79	85	79	79	77	71	67	58	81
4	T/YSC048E	82	84	83	80	76	72	66	58	82
5	T/YSC060E	85	82	81	81	77	72	67	61	82
6	T/YSC072F	91	95	90	87	84	79	75	68	89
7½	T/YSC090F	91	95	90	87	84	79	75	68	89
7½	T/YSC092F	92	96	92	89	85	80	76	69	91
8½	T/YSC102F	91	95	90	87	84	79	75	68	89
10	T/YSC120F	91	86	90	86	82	78	73	67	88
3	T/YHC036E	79	85	79	79	77	71	67	58	81
4	T/YHC048E	80	86	84	85	83	79	73	67	87
4	T/YHC048F	80	86	84	85	83	79	73	67	87
5	T/YHC060E	80	86	84	85	83	79	73	67	87
5	T/YHC060F	80	86	84	85	83	79	73	67	87
6	T/YHC072E,F	91	95	90	87	84	79	75	68	89
7½	T/YHC092F	91	86	90	86	82	78	73	67	88
8½	T/YHC102F	83	85	85	86	84	78	74	70	88
10	T/YHC120E	89	87	91	85	80	77	73	66	87

Note: Tests follow ARI270-95.

Fan Performance

Table 138. Static pressure drop through accessories (inches water column) - 3-10 tons

						Economizer with OA/RA Dampers[a]						Electric Heater Accessory (kW)[b],[c]			
Tons	Unit Model Number	cfm	Standard Filters[d]	2" MERV 8 Filter	2" MERV 13 Filter	100% OA Downflow	100% RA Downflow	100% OA Low Leak[e]	100% RA Low Leak[e]	100% OA Horizontal	100% RA Horizontal	5-6	9-18	23-36	54
3	T/YSC036E1	960	0.01	0.03	0.04	0.04	0.01	0.10	0.04	0.04	0.01	0.01	0.01	0.01	—
3	T/YSC036E1	1200	0.02	0.04	0.05	0.06	0.01	0.20	0.07	0.06	0.01	0.02	0.02	0.02	—
3	T/YSC036E1	1440	0.03	0.05	0.06	0.08	0.02	0.20	0.09	0.08	0.01	0.02	0.03	0.03	—
3	T/YSC036E3	960	0.01	0.03	0.04	0.04	0.01	0.11	0.04	0.04	0.01	0.01	0.01	0.01	—
3	T/YSC036E3	1200	0.02	0.04	0.05	0.06	0.01	0.17	0.07	0.06	0.01	0.02	0.02	0.02	—
3	T/YSC036E3	1440	0.03	0.05	0.06	0.08	0.02	0.23	0.09	0.08	0.01	0.02	0.03	0.03	—
4	T/YSC048E1	1280	0.03	0.05	0.06	0.09	0.02	0.08	0.04	0.09	0.01	0.02	0.03	0.03	—
4	T/YSC048E1	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.08	0.13	0.02	0.04	0.05	0.05	—
4	T/YSC048E1	1920	0.06	0.10	0.08	0.17	0.06	0.20	0.09	0.17	0.02	0.05	0.06	0.08	—
4	T/YSC048E3	1280	0.03	0.05	0.06	0.09	0.02	0.08	0.04	0.09	0.01	0.02	0.03	0.03	—
4	T/YSC048E3	1600	0.04	0.07	0.07	0.13	0.04	0.13	0.08	0.13	0.02	0.04	0.05	0.05	—
4	T/YSC048E3	1920	0.06	0.10	0.08	0.17	0.06	0.20	0.09	0.17	0.02	0.05	0.06	0.08	—
5	T/YSC060E1	1600	0.04	0.07	0.07	0.13	0.04	0.14	0.08	0.13	0.02	0.04	0.05	0.05	—
5	T/YSC060E1	2000	0.06	0.10	0.09	0.18	0.07	0.22	0.10	0.18	0.02	0.06	0.07	0.08	—
5	T/YSC060E1	2400	0.08	0.13	0.10	0.25	0.11	0.31	0.11	0.25	0.03	0.08	0.10	0.12	—
5	T/YSC060E3	1600	0.04	0.07	0.07	0.13	0.04	0.14	0.08	0.13	0.02	0.04	0.05	0.05	—
5	T/YSC060E3	2000	0.06	0.10	0.09	0.18	0.07	0.22	0.10	0.18	0.02	0.06	0.07	0.08	—
5	T/YSC060E3	2400	0.08	0.13	0.10	0.25	0.11	0.31	0.11	0.25	0.03	0.08	0.10	0.12	—
6	T/YSC072F	1920	0.04	0.07	0.10	0.10	0.01	0.20	0.09	0.06	0.02	—	0.01	0.02	—
6	T/YSC072F	2400	0.06	0.09	0.13	0.11	0.02	0.31	0.11	0.08	0.02	—	0.02	0.03	—
6	T/YSC072F	2880	0.09	0.12	0.15	0.13	0.04	0.46	0.19	0.10	0.04	—	0.03	0.05	—
7½	T/YSC090F	2400	0.04	0.06	0.12	0.11	0.02	0.20	0.09	0.08	0.02	—	0.02	0.02	—
7½	T/YSC090F	3000	0.06	0.09	0.13	0.14	0.05	0.31	0.11	0.12	0.05	—	0.03	0.03	—
7½	T/YSC090F	3600	0.09	0.13	0.15	0.21	0.07	0.46	0.19	0.25	0.08	—	0.04	0.05	—
7½	T/YSC092F	2400	0.04	0.06	0.12	0.11	0.02	0.20	0.11	0.08	0.02	—	0.02	0.02	—
7½	T/YSC092F	3000	0.06	0.09	0.13	0.14	0.05	0.31	0.20	0.12	0.05	—	0.03	0.03	—
7½	T/YSC092F	3600	0.09	0.13	0.15	0.21	0.07	0.46	0.30	0.25	0.08	—	0.04	0.05	—
8½	T/YSC102F	2720	0.05	0.08	0.13	0.12	0.03	0.42	0.18	0.09	0.04	—	0.02	0.03	—
8½	T/YSC102F	3400	0.08	0.11	0.14	0.19	0.06	0.63	0.21	0.18	0.06	—	0.03	0.04	—
8½	T/YSC102F	4080	0.12	0.16	0.16	0.30	0.07	0.91	0.34	0.31	0.09	—	0.05	0.06	—
10	T/YSC120F	3200	0.07	0.10	0.14	0.17	0.05	0.42	0.18	0.14	0.05	—	0.02	0.03	0.05
10	T/YSC120F	4000	0.11	0.15	0.16	0.26	0.07	0.63	0.21	0.30	0.08	—	0.02	0.03	0.05
10	T/YSC120F	4800	0.16	0.20	0.18	0.34	0.09	0.91	0.34	0.35	0.10	—	0.03	0.04	0.06

(a) OA = Outside Air and RA = Return Air.
(b) Nominal kW ratings at 240, 480, 600 volts. Heaters only available on T units.
(c) Electric heaters restricted on applications below 320 cfm/Ton.
(d) Tested with standard filters. Difference in pressure drop should be considered when utilizing optional 2" MERV 8 and MERV 13 filters.
(e) Low Leak - Downflow only.

Table 139. Static pressure drop through accessories (inches water column) - 3-10 tons

							Economizer with OA/RA Dampers[a]						Electric Heater Accessory (kW)[b],[c]			
							100% OA	100% RA	100% OA	100% RA	100% OA	100% RA				
Tons	Unit Model Number	cfm	Std. Filters[d]	2" MERV 8 Filter	2" MERV 13 Filter	Reheat Coil	Downflow		Low Leak[e]		Horizontal		5-6	9-18	23-36	54
3	T/YHC036E1	960	0.01	0.03	0.04	—	0.04	0.01	0.10	0.04	0.04	0.01	0.01	0.01	0.01	—
3	T/YHC036E1	1200	0.02	0.04	0.05	—	0.06	0.01	0.20	0.07	0.06	0.01	0.02	0.02	0.02	—
3	T/YHC036E1	1440	0.03	0.05	0.06	—	0.08	0.02	0.20	0.09	0.08	0.01	0.02	0.03	0.03	—
3	T/YHC036E3,4,W	600	0.01	0.02	0.03	0.04	0.03	0.01	0.04	0.01	0.03	0.01	—	—	—	—
3	T/YHC036E3,4,W	960	0.01	0.03	0.04	0.08	0.04	0.01	0.11	0.04	0.04	0.01	0.01	0.01	0.01	—
3	T/YHC036E3,4,W	1200	0.02	0.04	0.05	0.10	0.06	0.01	0.17	0.07	0.06	0.01	0.02	0.02	0.02	—
3	T/YHC036E3,4,W	1440	0.03	0.05	0.06	0.14	0.08	0.02	0.23	0.09	0.08	0.01	0.02	0.03	0.03	—
4	T/YHC048F1	1280	0.02	0.04	0.03	—	0.08	0.00	0.08	0.04	0.04	0.01	0.01	0.00	0.01	—
4	T/YHC048F1	1600	0.03	0.06	0.05	—	0.09	0.01	0.13	0.08	0.05	0.02	0.02	0.01	0.02	—
4	T/YHC048F1	1920	0.05	0.08	0.07	—	0.10	0.01	0.20	0.09	0.07	0.02	0.02	0.01	0.03	—
4	T/YHC048E/F3,4,W	800	0.01	0.03	0.04	0.03	0.06	0.00	0.02	0.03	0.03	0.01	—	—	—	—
4	T/YHC048E/F3,4,W	1280	0.02	0.04	0.03	0.07	0.08	0.00	0.08	0.04	0.04	0.01	0.01	0.00	0.01	—
4	T/YHC048E/F3,4,W	1600	0.03	0.06	0.05	0.09	0.09	0.01	0.13	0.08	0.05	0.02	0.02	0.01	0.02	—
4	T/YHC048E/F3,4,W	1920	0.05	0.08	0.07	0.12	0.10	0.01	0.20	0.09	0.07	0.02	0.02	0.01	0.03	—
5	T/YHC060F1	1600	0.03	0.06	0.08	—	0.09	0.01	0.14	0.08	0.05	0.02	0.02	0.01	0.02	—
5	T/YHC060F1	2000	0.05	0.08	0.11	—	0.11	0.01	0.22	0.10	0.07	0.02	0.02	0.02	0.03	—
5	T/YHC060F1	2400	0.07	0.10	0.13	—	0.12	0.03	0.31	0.11	0.09	0.03	0.03	0.02	0.04	—
5	T/YHC060E/F3,4,W	1000	0.01	0.04	0.03	0.05	0.06	0.01	0.04	0.03	0.06	0.01	—	—	—	—
5	T/YHC060E/F3,4,W	1600	0.03	0.06	0.08	0.09	0.09	0.01	0.14	0.08	0.05	0.01	0.02	0.01	0.02	—
5	T/YHC060E/F3,4,W	2000	0.05	0.08	0.11	0.13	0.11	0.01	0.22	0.10	0.07	0.02	0.02	0.02	0.03	—
5	T/YHC060E/F3,4,W	2400	0.07	0.10	0.13	0.17	0.12	0.03	0.31	0.11	0.09	0.04	0.03	0.02	0.04	—
6	T/YHC072E/F	1920	0.04	0.07	0.10	0.03	0.10	0.01	0.20	0.09	0.06	0.02	—	0.01	0.02	—
6	T/YHC072E/F	2400	0.06	0.09	0.13	0.07	0.11	0.02	0.31	0.11	0.08	0.02	—	0.02	0.03	—
6	T/YHC072E/F	2880	0.09	0.12	0.15	0.12	0.13	0.04	0.46	0.19	0.10	0.04	—	0.03	0.05	—

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Table 139. Static pressure drop through accessories (inches water column) - 3-10 tons (continued)

							Economizer with OA/RA Dampers[a]						Electric Heater Accessory (kW)[b],[c]			
							100% OA	100% RA	100% OA	100% RA	100% OA	100% RA				
Tons	Unit Model Number	cfm	Std. Filters[d]	2" MERV 8 Filter	2" MERV 13 Filter	Reheat Coil	Downflow		Low Leak[e]		Horizontal		5-6	9-18	23-36	54
7½	T/YHC092F	1500	0.02	0.03	0.08	0.03	0.07	0.01	0.07	0.05	0.04	0.01	—	—	—	—
7½	T/YHC092F	2400	0.04	0.06	0.12	0.06	0.11	0.02	0.20	0.11	0.08	0.02	—	0.01	0.01	—
7½	T/YHC092F	3000	0.06	0.09	0.13	0.08	0.14	0.05	0.31	0.20	0.12	0.05	—	0.01	0.02	—
7½	T/YHC092F	3600	0.09	0.13	0.15	0.11	0.21	0.07	0.46	0.30	0.25	0.08	—	0.02	0.03	—
8½	T/YHC102F	1700	0.02	0.05	0.11	0.04	0.07	0.01	0.16	0.09	0.05	0.02	—	—	—	—
8½	T/YHC102F	2720	0.05	0.08	0.13	0.07	0.12	0.03	0.42	0.18	0.09	0.04	—	0.01	0.02	—
8½	T/YHC102F	3400	0.08	0.11	0.14	0.10	0.19	0.06	0.63	0.21	0.18	0.06	—	0.02	0.02	—
8½	T/YHC102F	4080	0.12	0.16	0.16	0.13	0.30	0.07	0.91	0.34	0.31	0.09	—	0.03	0.03	—
10	T/YHC120E	2000	0.03	0.06	0.11	0.05	0.80	0.03	0.22	0.10	0.07	0.02	—	—	—	—
10	T/YHC120E	3200	0.07	0.10	0.14	0.09	0.17	0.05	0.57	0.20	0.14	0.05	—	0.02	0.03	0.05
10	T/YHC120E	4000	0.11	0.15	0.16	0.12	0.26	0.07	0.87	0.33	0.30	0.08	—	0.02	0.03	0.05
10	T/YHC120E	4800	0.16	0.20	0.18	0.16	0.34	0.09	1.23	0.49	0.35	0.10	—	0.03	0.04	0.06

(a) OA = Outside Air and RA = Return Air.
(b) Nominal kW ratings at 240, 480, 600 volts. Heaters only available on T units.
(c) Electric heaters restricted on applications below 320 cfm/Ton.
(d) Tested with standard filters. Difference in pressure drop should be considered when utilizing optional 2" MERV 8 and MERV 13 filters.
(e) Low Leak - Downflow only.

Table 140. Gas fired heating capacities - standard efficiency

Tons	Unit Model Number	Heating Input MBh[a]	Heating Output MBh	Air Temp. Rise, F
3	YSC036E1*(L,X)	60	48	25-55
3	YSC036E1*(M,Y)	80	65	35-65
3	YSC036E1*(H,Z)	120	96	55-85
3	YSC036E(3,4,W)*(L,X)	60	48	25-55
3	YSC036E(3,4,W)*(M,Y)	80	64	35-65
3	YSC036E(3,4,W)*(H,Z)	120	96	55-85
4	YSC048E1*(L,X)	60	49	15-45
4	YSC048E1*(M,Y)	80	65	20-50
4	YSC048E1*(H,Z)	120	96	40-70
4	YSC048E(3,4,W)*(L,X)	60	48	15-45
4	YSC048E(3,4,W)*(M,Y)	80	64	20-50
4	YSC048E(3,4,W)*(H,Z)	120	96	40-70
5	YSC060E1*(L,X)	60	48	10-40
5	YSC060E1*(M,Y)	80	65	15-45
5	YSC060E1*(H,Z)	130	104	35-65
5	YSC060E(3,4,W)*(L,X)	60	48	10-40
5	YSC060E(3,4,W)*(M,Y)	80	64	15-45
5	YSC060E(3,4,W)*(H,Z)	130	104	35-65

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Table 140. Gas fired heating capacities - standard efficiency (continued)

Tons	Unit Model Number	Heating Input MBh[a]	Heating Output MBh	Air Temp. Rise, F
6	YSC072F(3,4,W)*(L,X)	80	64	15-45
6	YSC072F(3,4,W)*(M,Y)	120	96	20-50
6	YSC072F(3,4,W)*(H,Z)	150/105	120/84	25-55
7½	YSC090F(3,4,W)*(L,X)	120	96	20-50
7½	YSC090F(3,4,W)*(M,Y)	150/105	120/84	25-55
7½	YSC090F(3,4,W)*(H,Z)	200/140	160/112	35-65
7½	YSC092F(3,4,W)*(L,X)	120	96	15-45
7½	YSC092F(3,4,W)*(M,Y)	150/105	120/84	20-50
7½	YSC092F(3,4,W)*(H,Z)	200/140	160/112	35-65
8½	YSC102F(3,4,W)*(L,X)	120	96	15-45
8½	YSC102F(3,4,W)*(M,Y)	150/105	120/84	20-50
8½	YSC102F(3,4,W)*(H,Z)	200/140	160/112	35-65
10	YSC120F(3,4,W)*(L,X)	150/105	120/84	20-50
10	YSC120F(3,4,W)*(M,Y)	200/140	160/112	25-55
10	YSC120F(3,4,W)*(H,Z)	250/175	200/140	35-65

Note: Ratings shown are for elevations up to 2,000 ft. For higher elevations, reduce ratings at a rate of 4% per 1,000 ft. elevation.

(a) For two stage heaters (input or output), Second stage is total heating capacity. Second Stage/First Stage.

Table 141. Gas fired heating capacities - high efficiency

Tons	Unit Model Number	Heating Input MBh	Heating Output MBh	Air Temp. Rise, F
3	YHC036E1*(L,X)	60	48	25-55
3	YHC036E1*(M,Y)	80	65	35-65
3	YHC036E1*(H,Z)	120	96	55-85
3	YHC036E(3,4,W)*(L,X)	60	48	25-55
3	YHC036E(3,4,W)*(M,Y)	80	64	35-65
3	YHC036E(3,4,W)*(H,Z)	120	96	55-85
4	YHC048F1*(L,X)	60	49	10-40
4	YHC048F1*(M,Y)	80	64	20-50
4	YHC048F1*(H,Z)	120	96	40-70
4	YHC048E(3,4,W)*(L,X)	60	48	10-40
4	YHC048E(3,4,W)*(M,Y)	80	64	20-50
4	YHC048E(3,4,W)*(H,Z)	120	96	40-70
4	YHC048F(3,4,W)*(L,X)	60	48	10-40
4	YHC048F(3,4,W)*(M,Y)	80	64	20-50
4	YHC048F(3,4,W)*(H,Z)	120	96	40-70
5	YHC060F1*(L,X)	60	49	10-40
5	YHC060F1*(M,Y)	80	64	15-45
5	YHC060F1*(H,Z)	130	104	35-65
5	YHC060E(3,4,W)*(L,X)	60	48	10-40
5	YHC060E(3,4,W)*(M,Y)	80	64	15-45
5	YHC060E(3,4,W)*(H,Z)	130	104	35-65

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Table 141. Gas fired heating capacities - high efficiency (continued)

Tons	Unit Model Number	Heating Input MBh	Heating Output MBh	Air Temp. Rise, F
5	YHC060F(3,4,W)*(L,X)	60	48	10-40
5	YHC060F(3,4,W)*(M,Y)	80	64	15-45
5	YHC060F(3,4,W)*(H,Z)	130	104	35-65
6	YHC072*(3,4,W)*(L,X)	80	64	15-45
6	YHC072*(3,4,W)*(M,Y)	120	96	20-50
6	YHC072*(3,4,W)*(H,Z)	150/105	120/84	25-55
7½	YHC092F(3,4,W)*(L,X)	120	96	20-50
7½	YHC092F(3,4,W)*(M,Y)	150/105	120/84	20-50
7½	YHC092F(3,4,W)*(H,Z)	200/140	160/112	35-65
8½	YHC102F(3,4,W)*(L,X)	120	96	20-50
8½	YHC102F(3,4,W)*(M,Y)	150/105	120/84	20-50
8½	YHC102F(3,4,W)*(H,Z)	200/140	160/112	35-65
10	YHC120E(3,4,W)*(L,X)	150/105	120/84	20-50
10	YHC120E(3,4,W)*(M,Y)	200/140	160/112	25-55
10	YHC120E(3,4,W)*(H,Z)	250/175	200/140	35-65

Note: Ratings shown are for elevations up to 2,000 ft. For higher elevations, reduce ratings at a rate of 4% per 1,000 ft. elevation.

Table 142. Auxiliary electric heat capacity

		Total[a]			Stage1		Stage 2	
Tons	Unit Model Number	kW Input[b]	MBh Output	No. of Stages	kW Input	MBh Output	kW Input	MBh Output
3	T*C036E1	5.00	17.07	1	5.00	17.07	—	—
3	T*C036E1	10.00	34.14	2	5.00	17.07	5.00	17.07
3	T*C036E1	13.80	47.11	2	5.00	17.07	8.80	30.04
3	T*C036E3, E4, EW	6.00	20.48	1	6.00	20.48	—	—
3	T*C036E3, E4, EW	12.00	40.97	2	6.00	20.48	6.00	20.48
3	T*C036E3, E4, EW	17.40	59.40	2	8.70	29.70	8.70	29.70
4	T*C048*1	5.00	17.07	1	5.00	17.07	—	—
4	T*C048*1	10.00	34.14	2	5.00	17.07	5.00	17.07
4	T*C048*1	13.80	47.11	2	5.00	17.07	8.80	30.04
4	T*C048*1	17.60	60.09	2	8.80	30.04	8.80	30.04
4	T*C048*3, *4, EW	6.00	20.48	1	6.00	20.48	—	—
4	T*C048*3, *4, EW	12.00	40.97	2	6.00	20.48	6.00	20.48
4	T*C048*3, *4, EW	17.40	59.40	2	8.70	29.70	8.70	29.70
5	T*C060*1	5.00	17.07	1	5.00	17.07	—	—
5	T*C060*1	10.00	34.14	2	5.00	17.07	5.00	17.07
5	T*C060*1	13.80	47.11	2	5.00	17.07	8.80	30.04
5	T*C060*1	17.60	60.09	2	8.80	30.04	8.80	30.04
5	T*C060*3, *4, EW	6.00	20.48	1	6.00	20.48	—	—
5	T*C060*3, *4, EW	12.00	40.97	2	6.00	20.48	6.00	20.48
5	T*C060*3, *4, EW	17.40	59.40	2	8.70	29.70	8.70	29.70
5	T*C060*3, *4, EW	23.00	78.52	2	8.70	29.70	14.30	48.82

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Table 142. Auxiliary electric heat capacity (continued)

		Total[a]			Stage1		Stage 2	
	Unit Model	kW	MBh	No. of	kW	MBh	kW	MBh
Tons	Number	Input[b]	Output	Stages	Input	Output	Input	Output
6	TSC072F3,4,W	9.00	30.73	1	9.00	30.73	—	—
6	TSC072F3,4,W	18.00	61.45	1	18.00	61.45	—	—
6	TSC072F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
6	TSC072F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
6	THC072*3,4,W	9.00	30.73	1	9.00	30.73	—	—
6	THC072*3,4,W	18.00	61.45	1	18.00	61.45	—	—
6	THC072*3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
6	THC072*3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
7½	TSC090F3,4,W	9.00	30.73	1	9.00	30.73	—	—
7½	TSC090F3,4,W	18.00	61.45	1	18.00	61.45	—	—
7½	TSC090F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
7½	TSC090F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
7½	TSC092F3,4,W	9.00	30.73	1	9.00	30.73	—	—
7½	TSC092F3,4,W	18.00	61.45	1	18.00	61.45	—	—
7½	TSC092F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
7½	TSC092F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
7½	THC092F3,4,W	9.00	30.73	1	9.00	30.73	—	—
7½	THC092F3,4,W	18.00	61.45	1	18.00	61.45	—	—
7½	THC092F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
7½	THC092F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
8½	TSC102F3,4,W	9.00	30.73	1	9.00	30.73	—	—
8½	TSC102F3,4,W	18.00	61.45	1	18.00	61.45	—	—
8½	TSC102F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
8½	TSC102F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
8½	THC102F3,4,W	9.00	30.73	1	9.00	30.73	—	—
8½	THC102F3,4,W	18.00	61.45	1	18.00	61.45	—	—
8½	THC102F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
8½	THC102F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
10	TSC120F3,4,W	18.00	61.45	1	18.00	61.45	—	—
10	TSC120F3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
10	TSC120F3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
10	TSC120F3,4,W	54.00	184.36	2	36.00	122.90	18.00	61.45
10	THC120E3,4	18.00	61.45	1	18.00	61.45	—	—
10	THC120E3,4,W	27.00	92.18	2	18.00	61.45	9.00	30.73
10	THC120E3,4,W	36.00	122.90	2	18.00	61.45	18.00	61.45
10	THC120E3,4,W	54.00	184.36	2	36.00	122.90	18.00	61.45

(a) Heaters are rated at 240V,380V,480V and 600V. For other than rated voltage, CAP= (voltage/rated voltage)^2 x rated cap.
(b) All input/output does not include indoor fan power or heat.

Fan Performance

Table 143. Electric heater voltage correction factors (applicable to auxiliary heat capacity)

Nominal Voltage	Distribution Voltage	Capacity Multiplier
240	208	0.751
240	230	0.918
240	240	1.000
480	440	0.840
480	460	0.918
480	480	1.000
600	540	0.810
600	575	0.918
600	600	1.000

Table 144. Air temperature rise across electric heaters (°F)

		3 Tons[a] 1200 cfm		4 Tons 1600 cfm		5 Tons[b] 2000 cfm	
kW	Stages	Single Phase T*C036E1	Three Phase T*C036E3,E4,EW	Single Phase T*C048E/F1	Three Phase T*C048E/F3, E/F4, EW	Single Phase T*C060E/F1	Three Phase T*C060E/F3, E/F4, EW
5.00	1	13.8	—	10.5	—	8.5	—
6.00	1	—	18.5	—	10.5	—	11.4
10.00	2	26.8	—	20.3	—	16.3	—
12.00	2	—	36.2	—	22.3	—	21.5
13.80	2	36.9	—	27.8	—	22.3	—
17.40	2	—	48.2	—	33.0	—	30.0
17.60	2	—	—	35.5	—	28.3	—
23.0	2	—	—	—	—	—	38.8

Notes:
1. For minimum design airflow, see airflow performance table for each unit.
2. To calculate temp rise at different airflow, use the following formula: Temp. rise across Electric Heater = kWx3414/1.08xCFM.

(a) The minimum allowable airflow for a 3 ton with a 17.4 kW heater is 1080 cfm.
(b) The minimum allowable airflow for a 5 ton unit with a 23.0 kW heater is 1900 cfm.

Table 145. 6-10 tons air temperature rise across electric heaters (°F)

		6 Tons 2000 cfm	7½ Tons 3000 cfm	8½ Tons 3400 cfm	10 Tons 4000 cfm[a]
kW	Stages	TSC072F3,4,W THC072F3,4,W	TSC090F3,4,W TSC092F3,4,W THC092F3,4,W	TSC102F3,4,W THC102F3,4,W	TSC120F3,4,W THC120E3,4,W
9.0	1	14.2	9.5	8.4	—
18.0	1	28.5	19.0	16.7	14.2
27.0	2	42.7	28.5	25.1	21.3
36.0	2	56.9	37.9	33.5	28.5
54.0	2	—	—	—	42.7

Notes:
1. For minimum design airflow, see airflow performance table for each unit.
2. To calculate temp rise at different airflow, use the following formula:
   Temp. rise across Electric Heater = kWx3414/1.08xcfm.

(a) Minimum allowable airflow with a 54 kW heater for the TSC120F and THC120E is 3400 cfm.

Table 146. Reheat temperature rise table

			Leaving Evaporator Dry Bulb						
Tons	Unit Model No.	CFM	35	40	45	50	55	60	65
3	THC	600	26.3	24.6	22.8	21.0	19.2	17.5	15.8
3	THC	720	24.4	22.8	21.1	19.4	17.7	16.1	14.6
3	THC	840	22.8	21.3	19.8	18.3	16.7	15.2	13.7
3	T/YHC	960	21.3	20.0	18.6	17.2	15.7	14.3	13.0
3	T/YHC	1080	20.0	18.8	17.5	16.2	14.9	13.6	12.3
3	T/YHC	1200	18.9	17.7	16.5	15.3	14.1	12.9	11.7
3	T/YHC	1320	17.9	16.8	15.7	14.6	13.4	12.2	11.1
3	T/YHC	1440	17.0	16.0	14.9	13.9	12.8	11.7	10.6
4	THC	800	18.1	16.7	15.4	14.1	12.8	11.6	10.6
4	THC	960	16.5	15.3	14.1	12.9	11.7	10.6	9.6
4	THC	1120	15.1	14.0	12.9	11.9	10.8	9.8	8.8
4	T/YHC	1280	14.0	13.0	12.0	11.0	10.0	9.1	8.2
4	T/YHC	1440	13.1	12.2	11.3	10.3	9.4	8.5	7.7
4	T/YHC	1600	12.3	11.4	10.6	9.7	8.8	8.0	7.2
4	T/YHC	1760	11.6	10.8	10.0	9.2	8.4	7.6	6.8
4	T/YHC	1920	10.9	10.2	9.4	8.7	7.9	7.2	6.4
5	THC	1000	24.4	22.9	21.5	20.1	18.8	17.4	16.1
5	THC	1200	22.4	21.1	19.8	18.5	17.3	16.1	14.9
5	THC	1400	20.8	19.6	18.4	17.2	16.1	15.0	13.9
5	T/YHC	1600	19.4	18.3	17.2	16.1	15.0	14.0	13.0
5	T/YHC	1800	18.1	17.1	16.1	15.1	14.2	13.2	12.2
5	T/YHC	2000	17.0	16.1	15.2	14.3	13.4	12.4	11.5
5	T/YHC	2200	16.1	15.3	14.4	13.5	12.6	11.8	10.9
5	T/YHC	2400	15.2	14.4	13.7	12.8	12.0	11.2	10.4
6	THC	1200	27.4	25.3	23.5	21.8	20.3	18.9	17.7
6	THC	1680	22.7	20.9	19.3	17.9	16.6	15.4	14.4
6	THC	1920	21.0	19.3	17.8	16.4	15.2	14.1	13.1
6	T/YHC	2160	19.4	17.8	16.4	15.2	14.1	13.1	12.2
6	T/YHC	2400	18.0	16.5	15.3	14.1	13.1	12.2	11.3
6	T/YHC	2640	16.8	15.5	14.3	13.2	12.3	11.4	10.6
6	T/YHC	2880	12.7	11.8	11.0	10.4	9.7	9.2	8.7
7½	THC	1500	36.7	39.1	41.2	43.1	44.9	46.4	47.8
7½	THC	1800	30.2	32.2	33.9	35.3	36.3	37.0	37.3
7½	THC	2100	25.4	27.1	28.6	29.8	30.7	31.3	31.7
7½	T/YHC	2400	21.9	23.4	24.7	25.8	26.6	27.3	27.7
7½	T/YHC	2700	19.3	20.6	21.8	22.8	23.6	24.3	24.8
7½	T/YHC	3000	17.1	18.3	19.4	20.3	21.1	21.7	22.2
7½	T/YHC	3300	15.5	16.6	17.6	18.5	19.3	19.9	20.4
7½	T/YHC	3600	14.1	15.1	16.0	16.7	17.5	18.1	18.6

continued on next page

Fan Performance

Table 146. Reheat temperature rise table (continued)

			Leaving Evaporator Dry Bulb						
Tons	Unit Model No.	CFM	35	40	45	50	55	60	65
8½	THC	1700	34.4	36.8	39.0	41.0	42.8	44.5	46.0
8½	THC	2040	28.3	30.4	32.2	33.8	35.2	36.4	37.4
8½	THC	2380	24.0	25.9	27.5	29.0	30.2	31.3	32.2
8½	T/YHC	2720	20.9	22.5	24.0	25.3	26.4	27.3	28.1
8½	T/YHC	3060	18.4	19.9	21.3	22.5	23.5	24.4	25.1
8½	T/YHC	3400	16.4	17.8	19.1	20.2	21.2	22.0	22.7
8½	T/YHC	3740	14.8	16.2	17.4	18.4	19.4	20.1	20.8
8½	T/YHC	4080	13.5	14.7	15.8	16.8	17.7	18.4	19.0
10	THC	2000	34.9	36.4	37.9	39.4	40.9	42.3	43.7
10	THC	2400	29.3	30.6	32.0	33.3	34.6	35.8	37.0
10	THC	2800	25.3	26.5	27.6	28.8	30.0	31.1	32.2
10	T/YHC	3200	22.3	23.3	24.4	25.4	26.5	27.5	28.4
10	T/YHC	3600	19.9	20.8	21.8	22.8	23.7	24.6	25.5
10	T/YHC	4000	17.9	18.8	19.7	20.6	21.5	22.3	23.1
10	T/YHC	4400	16.3	17.2	18.0	18.8	19.6	20.4	21.1
10	T/YHC	4800	15.0	15.8	16.6	17.3	18.1	18.8	19.5

Controls

ReliaTel™ Controlled Units

Zone Sensors are the building occupant's comfort control devices. The following zone sensor options are available for Precedent units with ReliaTel™ control:

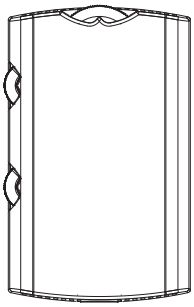
Differential Enthalpy

Differential Enthalpy replaces the standard dry bulb control with two enthalpy sensors that compare total heat content of the indoor air and outdoor air to determine the most efficient air source. This control option offers the highest level of comfort control, plus energy efficiency, available.

Differential Pressure Switches

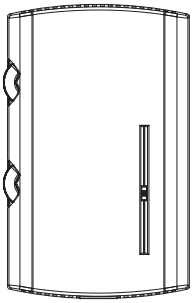
This factory or field-installed option allows individual fan failure and dirty filter indication. The fan failure switch will disable all unit functions and "flash" the Service LED on the zone sensor. The dirty filter switch will light the Service LED on the zone sensor and will allow continued unit operation.

Manual Changeover



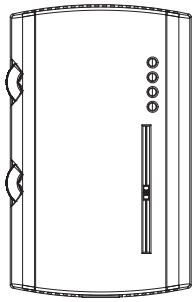
Heat, Cool or Off System Switch. Fan Auto or Off Switch. One temperature setpoint lever.

Manual/Automatic Changeover



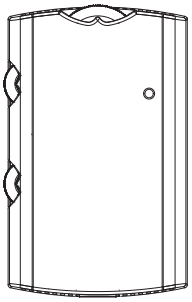
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.

Manual/Automatic Changeover



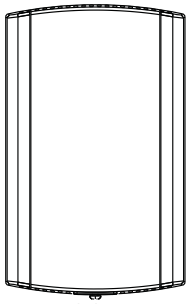
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers. Status Indication LED lights, System On, Heat, Cool, or Service.

Manual/Automatic Changeover



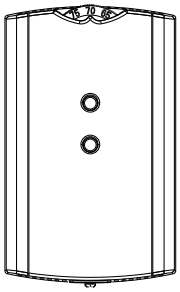
Auto, Heat, Cool or Off System Switch. Fan Auto or Off Switch. Two temperature setpoint levers.

Remote Sensor



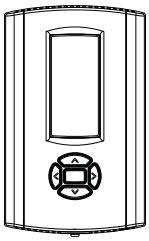
Sensor(s) available for all zone sensors to provide remote sensing capabilities.

Integrated Comfort™ System



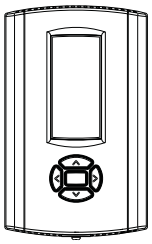
Sensor(s) available with optional temperature adjustment and override buttons to provide central control through a Trane Integrated Comfort™ system.

Digital Display Programmable Thermostat (1H/1C)



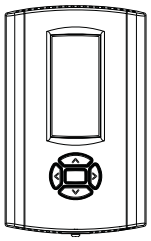
One heat/One Cool Auto changeover digital display thermostat.

Digital Display Thermostat (3H/2C)



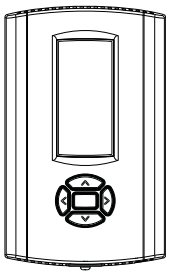
Three Heat, Two Cool Auto changeover digital display thermostat.

Digital Display Programmable Thermostat (3H/2C)



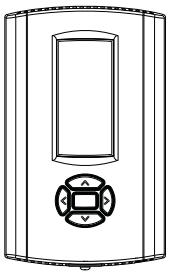
Three Heat/Two Cool Auto changeover digital display thermostat. 7-day programmable stat with night setback is available.

Programmable Night Setback



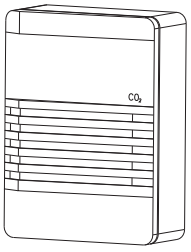
Auto or manual changeover with seven-day programming. Keyboard selection of Heat, Cool, Fan, Auto, or On. All programmable sensors have System On, Heat, Cool, Service LED/indicators as standard. Night Setback Sensors have one (1) Occupied, one (1) Un-occupied, and one (1) Override program per day.

Wireless Zone Sensor



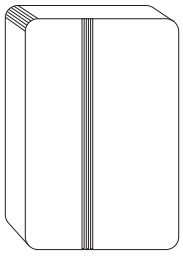
LCD display that provides heat, cool, auto or off. Includes two temperature setpoints and a lockable setting with °F or °C indicators.

CO_2 Sensing



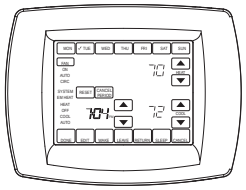
The CO_2 sensor shall have the ability to monitor the concentration (parts per million, ppm) of CO_2 (Carbon Dioxide) in the air. As the CO_2 concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone.

Humidity Sensor



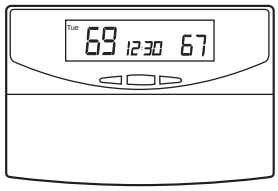
Field installed, wall-mounted or duct-mounted humidity sensor is used to control activation of the hot gas reheat dehumidification option. The humidity sensor can be set for humidity levels between 40% and 60% relative humidity by adjusting the ReliaTel™ Options Module.

Touchscreen Programmable Thermostat (2H/2C)



Two Heat, Two Cool programmable thermostat with touch screen digital display. Menu-driven programming. Effortless set-up. Program each day separately with no need to copy multiple days. All programming can be done on one screen. Easy to read and use. Large, clear backlit digital display.

Digital Display Programmable Thermostat with Built-In Relative Humidity Sensing (3H/2C)



Three Heat, Two Cool digital display thermostat with built-in humidity control and display. This thermostat combines both humidity and dry bulb into one. Fully programmable with night setback.

Economizer Controls

The standard equipment offering is a fixed dry bulb changeover control. In addition, there are two optional controls, Enthalpy and Differential Enthalpy Control.

Enthalpy Control

Replaces the dry bulb control with a wet bulb changeover controller which has a fully adjustable setpoint. Enthalpy control offers a higher level of comfort control, along with energy savings potential, than the standard dry bulb control. This is due to the additional wet bulb sensing capability.

RA Remote Sensor

Return Air Remote Sensor which can be mounted in the return air duct to report return air temperature.

Room Remote Sensor

Space Remote Sensor which can be mounted on the wall to report/control from a remote location in the space.

Remote Potentiometer

Minimum position setting of economizer can be remotely adjusted with this accessory.

Trane Communication Interface (TCI)

This factory or field-installed micro-processor interface allows the unit to communicate to Trane's Integrated Comfort™ system.

BACnet® Communication Interface

This option shall be provided to allow the unit to communicate directly with a generic open protocol BACnet MS/TP Network Building Automation System Controls.

Electrical Data

Table 147. Unit wiring - standard efficiency

Tons	Unit Model Number	Voltage Range	Standard Indoor Fan Motor[a]		Oversized Indoor Fan Motor	
			MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
3	T/YSC036E1	187-253	28.8	45	—	—
3	T/YSC036E3	187-253	23.0	35	—	—
3	T/YSC036E4	414-506	11.7	15	—	—
3	T/YSC036EW	517-633	9.4	15	—	—
4	T/YSC048E1	187-253	36.8	50	—	—
4	T/YSC048E3	187-253	24.1	35	—	—
4	T/YSC048E4	414-506	11.5	15	—	—
4	T/YSC048EW	517-633	8.6	15	—	—
5	T/YSC060E1	187-253	41.1	60	—	—
5	T/YSC060E3	187-253	27.4	40	—	—
5	T/YSC060E4	414-506	12.3	15	—	—
5	T/YSC060EW	517-633	8.9	15	—	—
6	T/YSC072F3	187-253	36.5	50	37.8	60
6	T/YSC072F4	414-506	18.2	25	19.4	25
6	T/YSC072FW	517-633	12.7	20	13.5	20
7½	T/YSC090F3	187-253	38.2	60	44.0	60
7½	T/YSC090F4	414-506	19.5	30	22.4	35
7½	T/YSC090FW	517-633	14.7	20	16.7	25
7½[b]	T/YSC092F3	187-253	39.3	50	45.1	50
7½[b]	T/YSC092F4	414-506	18.5	20	21.4	25
7½[b]	T/YSC092FW	517-633	15.5	20	17.8	20
8½	T/YSC102F3	187-253	43.3	50	46.4	60
8½	T/YSC102F4	414-506	21.4	25	22.4	25
8½	T/YSC102FW	517-633	16.8	20	18.0	20
10	T/YSC120F3	187-253	49.6	60	—	—
10	T/YSC120F4	414-506	22.7	30	—	—
10	T/YSC120FW	517-633	18.9	25	—	—

(a) No optional motors available for 3-5 tons. The standard motor for the 1-phase models is a Multispeed Direct Drive Motor. The standard motor for 3-phase (3-8½ ton models) is a Belt Drive Motor.
(b) Dual refrigeration system.

Table 148. Unit wiring with electric heat (single point connection) - standard efficiency

Tons	Unit Model Number	Heater Model Number	Heater kW Rating[a]	Control Stages	Standard Indoor Motor		Oversized Indoor Motor	
					MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
208/230 Volts Single Phase								
3	TSC036E1	BAYHTRE105*	3.8/5.0	1	30.1/33.5	45.0/45.0	—	—
3	TSC036E1	BAYHTRE110*	7.5/10.0	2	52.6/59.6	60.0/60.0	—	—
3	TSC036E1	BAYHTRE114*	10.4/13.8	2	69.8/79.4	70.0/80.0	—	—
4	TSC048E1	BAYHTRE105*	3.8/5.0	1	36.8/36.8	50.0/50.0	—	—
4	TSC048E1	BAYHTRE110*	7.5/10.0	2	54.6/61.6	60.0/70.0	—	—
4	TSC048E1	BAYHTRE114*	10.4/13.8	2	71.8/81.4	80.0/90.0	—	—
4	TSC048E1	BAYHTRE118*	13.2/17.6	2	89.0/101.1	90.0/110.0	—	—
5	TSC060E1	BAYHTRE105*	3.8/5.0	1	41.1/41.4	60.0/60.0	—	—
5	TSC060E1	BAYHTRE110*	7.5/10.0	2	54.6/61.6	70.0/70.0	—	—
5	TSC060E1	BAYHTRE114*	10.4/13.8	2	71.8/81.4	80.0/90.0	—	—
5	TSC060E1	BAYHTRE118*	13.2/17.6	2	89.0/101.1	90.0/110.0	—	—
208/230 Volts Three Phase								
3	TSC036E3	BAYHTRE306*	4.5/6.0	1	23.0/24.3	35.0/35.0	—	—
3	TSC036E3	BAYHTRE312*	9.0/12.0	2	37.5/42.4	40.0/45.0	—	—
3	TSC036E3	BAYHTRE318*	13.1/17.4	2	51.6/58.6	60.0/60.0	—	—
4	TSC048E3	BAYHTRE306*	4.5/6.0	1	24.1/24.3	35.0/35.0	—	—
4	TSC048E3	BAYHTRE312*	9.0/12.0	2	37.5/42.4	40.0/45.0	—	—
4	TSC048E3	BAYHTRE318*	13.1/17.4	2	51.6/58.6	60.0/60.0	—	—
5	TSC060E3	BAYHTRE306*	4.5/6.0	1	27.4/27.4	40.0/40.0	—	—
5	TSC060E3	BAYHTRE312*	9.0/12.0	2	37.5/42.4	40.0/45.0	—	—
5	TSC060E3	BAYHTRE318*	13.1/17.4	2	51.6/58.6	60.0/60.0	—	—
5	TSC060E3	BAYHTRE323*	17.3/23.0	2	66.3/75.4	70.0/80.0	—	—
6	TSC072F3	BAYHTRS309*	6.8/9.0	1	36.5/36.5	50/50	37.8/37.8	60/60
6	TSC072F3	BAYHTRS318*	13.5/18.0	1	53.1/60.4	60/70	54.8/62.0	60/70
6	TSC072F3	BAYHTRS327*	20.3/27.0	2	76.6/87.5	80/90	78.3/89.1	80/90
6	TSC072F3	BAYHTRS336*	27.0/36.0	2	100.1/114.5	110/125	101.8/116.1	110/125
7½	TSC090F3	BAYHTRW309*	6.8/9.0	1	38.2/38.2	60/60	44.0/44.0	60/60
7½	TSC090F3	BAYHTRW318*	13.5/18.0	1	51.4/58.6	60/60	58.6/65.9	60/70
7½	TSC090F3	BAYHTRW327*	20.3/27.0	2	74.9/85.8	80/90	82.1/93.0	90/100
7½	TSC090F3	BAYHTRW336*	27.0/36.0	2	98.4/112.8	100/125	105.6/120.0	110/125
7½[b]	TSC092F3	BAYHTRT309*	6.8/9.0	1	39.3/39.3	50/50	45.1/45.1	50/50
7½[b]	TSC092F3	BAYHTRT318*	13.5/18.0	1	51.4/58.6	60/60	58.6/65.9	60/70
7½[b]	TSC092F3	BAYHTRT327*	20.3/27.0	2	74.9/85.8	80/90	82.1/93.0	90/100
7½[b]	TSC092F3	BAYHTRT336*	27.0/36.0	2	98.4/112.8	100/125	105.6/120.0	110/125
8½	TSC102F3	BAYHTRT309*	6.8/9.0	1	43.3/43.3	50/50	46.4/46.4	60/60
8½	TSC102F3	BAYHTRT318*	13.5/18.0	1	54.8/62.0	60/70	58.6/65.9	60/70
8½	TSC102F3	BAYHTRT327*	20.3/27.0	2	78.3/89.1	80/90	82.1/93.0	90/100
8½	TSC102F3	BAYHTRT336*	27.0/36.0	2	101.8/116.1	110/125	105.6/120.0	110/125
10	TSC120F3	BAYHTRA318*	13.5/18.0	1	57.5/64.8	60/70	—/—	—/—

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Table 148. Unit wiring with electric heat (single point connection) - standard efficiency (continued)

					Standard Indoor Motor		Oversized Indoor Motor	
Tons	Unit Model Number	Heater Model Number	Heater kW Rating[a]	Control Stages	MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
208/230 Volts Three Phase								
10	TSC120F3	BAYHTRA327*	20.3/27.0	2	81.0/91.9	90/100	—/—	—/—
10	TSC120F3	BAYHTRA336*	27.0/36.0	2	104.5/118.9	110/125	—/—	—/—
10	TSC120F3	BAYHTRA354*	40.6/54.0	2	151.4/140.5	175/150	—/—	—/—
460 Volts Three Phase								
3	TSC036E4	BAYHTRE406*	6.0	1	12.1	15	—	—
3	TSC036E4	BAYHTRE412*	12.0	2	21.1	25	—	—
3	TSC036E4	BAYHTRE418*	17.4	2	29.3	30	—	—
4	TSC048E4	BAYHTRE406*	6.0	1	12.1	15	—	—
4	TSC048E4	BAYHTRE412*	12.0	2	21.1	25	—	—
4	TSC048E4	BAYHTRE418*	17.4	2	29.3	30	—	—
5	TSC060E4	BAYHTRE406*	6.0	1	12.3	15	—	—
5	TSC060E4	BAYHTRE412*	12.0	2	21.1	25	—	—
5	TSC060E4	BAYHTRE418*	17.4	2	29.3	30	—	—
5	TSC060E4	BAYHTRE423*	23.0	2	37.8	40	—	—
6	TSC072F4	BAYHTRS409*	9.0	1	18.2	25	19.3	25
6	TSC072F4	BAYHTRS418*	18.0	1	30.3	35	31.6	35
6	TSC072F4	BAYHTRS427*	27.0	2	43.8	45	45.1	50
6	TSC072F4	BAYHTRS436*	36.0	2	57.3	60	58.6	60
7½	TSC090F4	BAYHTRW409*	9.0	1	19.5	30	22.4	35
7½	TSC090F4	BAYHTRW418*	18.0	1	29.3	30	32.9	35
7½	TSC090F4	BAYHTRW427*	27.0	2	42.8	45	46.4	50
7½	TSC090F4	BAYHTRW436*	36.0	2	56.3	60	59.9	60
7½[b]	TSC092F4	BAYHTRT409*	9.0	1	18.5	20	21.4	25
7½[b]	TSC092F4	BAYHTRT418*	18.0	1	29.3	30	32.9	35
7½[b]	TSC092F4	BAYHTRT427*	27.0	2	42.8	45	46.4	50
7½[b]	TSC092F4	BAYHTRT436*	36.0	2	56.3	60	59.9	60
8½	TSC102F4	BAYHTRT409*	9.0	1	21.4	25	22.4	25
8½	TSC102F4	BAYHTRT418*	18.0	1	31.6	35	32.9	35
8½	TSC102F4	BAYHTRT427*	27.0	2	45.1	50	46.4	50
8½	TSC102F4	BAYHTRT436*	36.0	2	58.6	60	59.9	60
10	TSC120F4	BAYHTRA418*	18.0	1	32.5	35	—	—
10	TSC120F4	BAYHTRA427*	27.0	2	46.0	50	—	—
10	TSC120F4	BAYHTRA436*	36.0	2	59.5	60	—	—
10	TSC120F4	BAYHTRA454*	54.0	2	70.4	80	—	—
575 Volts Three Phase								
3	TSC036EW	BAYHTREW06*	6.0	1	9.4	15	—	—
3	TSC036EW	BAYHTREW12*	12.0	2	16.5	20	—	—
3	TSC036EW	BAYHTREW18*	17.4	2	23.0	25	—	—
4	TSC048EW	BAYHTREW06*	6.0	1	9.4	15	—	—
4	TSC048EW	BAYHTREW12*	12.0	2	16.5	20	—	—

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Table 148. Unit wiring with electric heat (single point connection) - standard efficiency (continued)

Tons	Unit Model Number	Heater Model Number	Heater kW Rating[a]	Control Stages	Standard Indoor Motor MCA	Standard Indoor Motor Max Fuse Size or Max Circuit Breaker	Oversized Indoor Motor MCA	Oversized Indoor Motor Max Fuse Size or Max Circuit Breaker
575 Volts Three Phase								
4	TSC048EW	BAYHTREW18*	17.4	2	23.0	25	—	—
5	TSC060EW	BAYHTREW06*	6.0	1	9.4	15	—	—
5	TSC060EW	BAYHTREW12*	12.0	2	16.5	20	—	—
5	TSC060EW	BAYHTREW18*	17.4	2	23.0	25	—	—
5	TSC060EW	BAYHTREW23*	23.0	2	29.8	30	—	—
6	TSC072FW	BAYHTRSW09*	9.0	1	13.0	20	14.0	20
6	TSC072FW	BAYHTRSW18*	18.0	1	23.8	25	24.8	25
6	TSC072FW	BAYHTRSW27*	27.0	2	34.6	35	35.6	40
6	TSC072FW	BAYHTRSW36*	36.0	2	45.4	50	46.4	50
7½	TSC090FW	BAYHTRWW18*	18.0	1	23.4	25	25.9	30
7½	TSC090FW	BAYHTRWW27*	27.0	2	34.3	35	36.8	40
7½	TSC090FW	BAYHTRWW36*	36.0	2	45.0	45	47.5	50
7½[b]	TSC092FW	BAYHTRTW18*	18.0	1	23.4	25	26.3	30
7½[b]	TSC092FW	BAYHTRTW27*	27.0	2	34.3	35	37.1	40
7½[b]	TSC092FW	BAYHTRTW36*	36.0	2	45.0	45	47.9	50
8½	TSC102FW	BAYHTRTW18*	18.0	1	24.8	25	26.3	30
8½	TSC102FW	BAYHTRTW27*	27.0	2	35.6	40	37.1	40
8½	TSC102FW	BAYHTRTW36*	36.0	2	46.4	50	47.9	50
10	TSC120FW	BAYHTRAW18*	18.0	1	27.0	30	—	—
10	TSC120FW	BAYHTRAW36*	36.0	2	48.6	50	—	—
10	TSC120FW	BAYHTRAW54*	54.0	2	57.4	60	—	—

(a) No optional motors available for 3-5 tons. The standard motor for 1-phase models is a Multispeed, Direct Drive Motor. The Standard Motor for the 3-phase (3-8½ ton models) is a Belt Drive Motor.
(b) Dual refrigeration system.

Table 149. Electrical characteristics - compressor motor and condenser motor - 60 cycle - standard efficiency

Tons	Unit Model Number	Compressor Motors No.	Volts	Phase	hp[b]	rpm	Amps[a] RLA	Amps[a] LRA	Condenser Fan Motors No.	Volts	Phase	hp	Amps[a] FLA	Amps[a] LRA
3	T/YSC036E1	1	208-230	1	2.7	3500	16.7	79.0	1	208-230	1	0.33	2.0	6.6
3	T/YSC036E3	1	208-230	3	2.8	3500	12.8	95.0	1	208-230	1	0.33	2.0	6.6
3	T/YSC036E4	1	460	3	2.8	3500	6.4	45.0	1	460	1	0.33	1.2	2.5
3	T/YSC036EW	1	575	3	2.8	3500	5.4	38.0	1	575	1	0.33	0.9	1.3
4	T/YSC048E1	1	208-230	1	3.6	3500	21.8	117.0	1	208-230	1	0.33	2.0	6.6
4	T/YSC048E3	1	208-230	3	3.6	3500	13.7	83.1	1	208-230	1	0.33	2.0	6.6
4	T/YSC048E4	1	460	3	3.6	3500	6.2	41.0	1	460	1	0.33	1.2	2.5
4	T/YSC048EW	1	575	3	3.5	3500	4.8	33.0	1	575	1	0.33	0.9	1.3
5	T/YSC060E1	1	208-230	1	4.4	3500	25.0	134.0	1	208-230	1	0.40	2.5	6.6
5	T/YSC060E3	1	208-230	3	4.3	3500	15.9	110.0	1	208-230	1	0.40	2.5	6.6
5	T/YSC060E4	1	460	3	4.3	3500	7.1	52.0	1	460	1	0.40	1.0	2.8

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Table 149. Electrical characteristics - compressor motor and condenser motor - 60 cycle - standard efficiency (continued)

Unit Model		Compressor Motors					Amps[a]		Condenser Fan Motors				Amps[a]	
Tons	Number	No.	Volts	Phase	hp[b]	rpm	RLA	LRA	No.	Volts	Phase	hp	FLA	LRA
5	T/YSC060EW	1	575	3	4.3	3500	5.1	39.5	1	575	1	0.40	0.8	2.0
6	T/YSC072F3	1	208-230	3	5.6	3500	22.4	149.0	1	208-230	1	.70	3.5	10.9
6	T/YSC072F4	1	460	3	5.6	3500	10.6	75.0	1	460	1	.70	2.4	6.6
6	T/YSC072FW	1	575	3	5.6	3500	7.7	54.0	1	575	1	.70	1.4	3.6
7½	T/YSC090F3	1	208-230	3	6.7	3500	25.0	164.0	1	208-230	1	.70	3.3	9.5
7½	T/YSC090F4	1	460	3	6.7	3500	12.8	100.0	1	460	1	.70	1.8	5.5
7½	T/YSC090FW	1	575	3	6.7	3500	9.6	78.0	1	575	1	.70	1.3	3.2
7½	T/YSC092F3	1	208-230	3	3.7/3.1	3500/3500	14.5/13.6	98.0/83.0	1	208-230	1	.75	4.0	9.4
7½	T/YSC092F4	1	460	3	3.7/3.1	3500/3500	6.3/6.1	55.0/41.0	1	460	1	.75	2.8	6.8
7½	T/YSC092FW	1	575	3	3.7/3.1	3500/3500	6.0/4.2	41.0/33.0	1	575	1	.75	2.4	6.2
8½	T/YSC102F3	2	208-230	3	3.7/3.7	3500/3500	15.9/13.1	110.0/83.0	1	208-230	1	.75	4.0	9.4
8½	T/YSC102F4	2	460	3	3.7/3.7	3500/3500	7.1/6.1	52.0/41.0	1	460	1	.75	2.8	6.8
8½	T/YSC102FW	2	575	3	3.7/3.7	3500/3500	6.0/4.4	41.0/33.0	1	575	1	.75	2.4	6.2
10	T/YSC120F3	2	208-230	3	4.8/3.7	3500/3500	20.5/16.0	155.0/91.0	1	208-230	1	.75	4.0	9.4
10	T/YSC120F4	2	460	3	4.8/3.7	3500/3500	9.6/7.1	75.0/46.0	1	460	1	.75	2.8	6.8
10	T/YSC120FW	2	575	3	4.8/3.7	3500/3500	7.6/5.6	54.0/37.0	1	575	1	.75	2.4	6.2

(a) Amp draw for each motor; multiply value by number of motors to determine total amps.
(b) hp for each compressor.

Table 150. Electrical characteristics - standard evaporator fan motor - 60 cycle - direct or belt drive standard efficiency

	Unit Model	Direct or Belt					Amps	
Tons	Number	Drive	No.	Volts	Phase	hp	FLA	LRA
3	T/YSC036E1	Direct Drive	1	208-230	1	0.75	6.0	—
3	T/YSC036E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
3	T/YSC036E4	Belt Drive	1	460	3	1.00	2.5	16.1
3	T/YSC036EW	Belt Drive	1	575	3	1.00	1.7	13.2
4	T/YSC048E1	Direct Drive	1	208-230	1	1.00	7.6	—
4	T/YSC048E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
4	T/YSC048E4	Belt Drive	1	460	3	1.00	2.5	16.1
4	T/YSC048EW	Belt Drive	1	575	3	1.00	1.7	13.2
5	T/YSC060E1	Direct Drive	1	208-230	1	1.00	7.6	—
5	T/YSC060E3	Belt Drive	1	208-230	3	1.00	5.0	32.2
5	T/YSC060E4	Belt Drive	1	460	3	1.00	2.5	16.1
5	T/YSC060EW	Belt Drive	1	575	3	1.00	1.7	13.2
6	T/YSC072F3	Belt Drive	1	208-230	3	1.00	5.0	32.2
6	T/YSC072F4	Belt Drive	1	460	3	1.00	2.5	16.1
6	T/YSC072FW	Belt Drive	1	575	3	1.00	1.7	13.2
7½	T/YSC090F3	Belt Drive	1	208-230	3	1.00	3.6-3.5	12.5
7½	T/YSC090F4	Belt Drive	1	460	3	1.00	1.7	12.5
7½	T/YSC090FW	Belt Drive	1	575	3	1.00	1.4	10.0
7½	T/YSC092F3	Belt Drive	1	208-230	3	1.00	3.6-3.5	12.5

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Table 150. Electrical characteristics - standard evaporator fan motor - 60 cycle - direct or belt drive standard efficiency (continued)

	Unit Model	Direct or Belt					Amps	
Tons	Number	Drive	No.	Volts	Phase	hp	FLA	LRA
7½	T/YSC092F4	Belt Drive	1	460	3	1.00	1.7	12.5
7½	T/YSC092FW	Belt Drive	1	575	3	1.00	1.4	10.0
8½	T/YSC102F3	Belt Drive	1	208-230	3	2.00	6.3	48.0
8½	T/YSC102F4	Belt Drive	1	460	3	2.00	3.6	24.0
8½	T/YSC102FW	Belt Drive	1	575	3	2.00	2.5	18.2
10	T/YSC120F3	Direct Drive	1	208-230	3	3.80	8.5-8.5	—
10	T/YSC120F4	Direct Drive	1	460	3	3.60	4.3	—
10	T/YSC120FW[a]	Direct Drive	1	575	3	3.60	4.3	—

(a) T/YSC120FW utilizes a 460V evaporator motor.

Table 151. Electrical characteristics - oversized evaporator fan motor - 60 cycle - belt drive - standard efficiency

	Unit Model					Amps	
Tons	Number	No.	Volts	Phase	hp	FLA	LRA
6	T/YSC072F3	1	208-230	3	2.00	6.30	48.0
6	T/YSC072F4	1	460	3	2.00	3.6	24.0
6	T/YSC072FW	1	575	3	2.00	2.50	18.2
7½	T/YSC090F3	1	208-230	3	3.00	9.40-9.20	52.4
7½	T/YSC090F4	1	460	3	3.00	4.60	26.3
7½	T/YSC090FW	1	575	3	3.00	3.40	29.4
7½	T/YSC092F3	1	208-230	3	3.00	9.40	83.0
7½	T/YSC092F4	1	460	3	3.00	4.60	42.0
7½	T/YSC092FW	1	575	3	3.00	3.70	31.0
8½	T/YSC102F3	1	208-230	3	3.00	9.40	83.0
8½	T/YSC102F4	1	460	3	3.00	4.60	42.0
8½	T/YSC102FW	1	575	3	3.00	3.70	31.0

Table 152. Electrical characteristics — power exhaust (cooling and gas/electric)

Tons	Volts	Phase	hp	rpm	FLA	LRA
3-5	208-230	1	0.33	1075	2.2	3.9
3-5	460	1	0.33	1075	1.1	2.0
3-5	575	1	0.33	1075	1.0	1.8
6-10	208-230	1	0.87	1075[a]	5.7	13.6
6-10	460	1	0.87	1075[a]	3.3	6.8
6-10	575	1	0.87	1075[a]	2.3	5.4

(a) Two speed.

Table 153. Electrical characteristics - inducer motor

Unit Model Number	Stages	hp	rpm	Volts	Phase	LRA
YSC(036-060)E**(L,M,X,Y)	1	1/35	3000	208-230	1	0.6
YSC(036-060)E**(H,Z)	1	1/15	3300	208-230	1	0.4
YSC072F**(L,M,X,Y) YSC(090-102)F**(L,X)	1	1/35	3000	208-230	1	0.6
YSC072F**(H,Z) YSC(090-102)F**(M,H,Y,Z) YSC120F	2	1/15	2800/3350	208-230	1	0.4

Table 154. Unit wiring - high efficiency

			Standard Indoor Fan Motor		Optional Belt Drive Indoor Fan Motor[a]	
Tons	Unit Model Number	Voltage Range	MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
3	T/YHC036E1	187-253	28.3	45	([a])	([a])
3	T/YHC036E3	187-253	20.6	30	19.6	25
3	T/YHC036E4	414-506	11.0	15	10.3	15
3	YHC036EW	517-633	7.9	15	7.2	15
4	T/YHC048F1	187-253	37.3	50	([a])	([a])
4	T/YHC048E_F3	187-253	27.2	40	24.6	35
4	T/YHC048E_F4	414-506	12.8	15	11.3	15
4	YHC048FW	517-633	9.8	15	8.5	15
5	T/YHC060F1	187-253	41.4	60	([a])	([a])
5	T/YHC060E_F3	187-253	30.0	45	27.4	40
5	T/YHC060E_F4	414-506	13.8	20	12.3	15
5	YHC060E_FW	517-633	10.2	15	8.9	15
6	T/YHC072E_F3	187-253	32.3	50	33.6	50
6	T/YHC072E_F4	414-506	15.1	20	15.7	20
6	YHCO72E_FW	517-633	12.7	15	13.5	20
7½	T/YHC092F3	187-253	41.9	50	—	—
7½	T/YHC092F4	414-506	19.9	25	—	—
7½	YHC092FW	517-633	15.6	20	—	—
8½	T/YHC102F3	187-253	42.0	50	—	—
8½	T/YHC102F4	414-506	21.6	25	—	—
8½	YHC102FW	517-633	16.5	20	—	—
10	T/YHC120E3	187-253	48.9	60	—	—
10	T/YHC120E4	414-506	22.1	30	—	—
10	YHC120EW	517-633	16.8	20	—	—

(a) No optional motors available for 3-5 tons. The standard motor for the 1-phase models is a Multispeed Direct Drive Motor.

Table 155. Unit wiring with electric heat (single point connection) - high efficiency - 3-5 tons

Tons	Unit Model Number	Heater Model Number	Heater kW Rating[a]	Control Stages	Standard Indoor Motor		Optional Belt Drive Indoor Motor	
					MCA	Max Fuse Size or Max Circuit Breaker	MCA	Max Fuse Size or Max Circuit Breaker
208/230 Volts Single Phase								
3	THC036E1	BAYHTRE105*	3.8/5.0	1	30.1/33.5	45/45	—	—
3	THC036E1	BAYHTRE110*	7.5/10.0	2	52.6/59.6	60/60	—	—
3	THC036E1	BAYHTRE114*	10.4/13.8	2	69.8/79.4	70/80	—	—
4	THC048F1	BAYHTRX105*	3.8/5.0	1	37.3/37.3	50/50	—	—
4	THC048F1	BAYHTRX110*	7.5/10.0	2	54.6/61.6	60/70	—	—
4	THC048F1	BAYHTRX114*	10.4/13.8	2	71.8/81.4	80/90	—	—
4	THC048F1	BAYHTRX118*	13.2/17.6	2	89.0/101.1	90/110	—	—
5	THC060F1	BAYHTRX105*	3.8/5.0	1	41.1/41.4	60/60	—	—
5	THC060F1	BAYHTRX110*	7.5/10.0	2	54.6/61.6	60/70	—	—
5	THC060F1	BAYHTRX114*	10.4/13.8	2	71.8/81.4	80/90	—	—
5	THC060F1	BAYHTRX118*	13.2/17.6	2	89.0/101.1	90/110	—	—
208/230 Volts Three Phase								
3	THC036E3	BAYHTRE306*	4.5/6.0	1	23.1/25.5	30/30	21.9/24.3	30/30
3	THC036E3	BAYHTRE312*	9.0/12.0	2	38.8/43.6	40/45	37.5/42.4	40/45
3	THC036E3	BAYHTRE318*	13.1/17.4	2	52.9/59.9	60/60	51.6/58.6	60/60
4	THC048E_F3	BAYHTRX306*	4.5/6.0	1	27.2/27.5	40/40	24.6/24.6	35/35
4	THC048E_F3	BAYHTRX312*	9.0/12.0	2	40.8/45.6	45/50	37.5/42.4	40/45
4	THC048E_F3	BAYHTRX318*	13.1/17.4	2	54.9/61.9	60/70	51.6/58.6	60/60
5	THC060E_F3	BAYHTRX306*	4.5/6.0	1	30.0/30.0	45/45	27.4/27.4	40/40
5	THC060E_F3	BAYHTRX312*	9.0/12.0	2	40.8/45.6	45/50	37.5/42.4	40/45
5	THC060E_F3	BAYHTRX318*	13.1/17.4	2	54.9/61.9	60/70	51.6/58.6	60/60
5	THC060E_F3	BAYHTRX323*	17.3/23.0	2	69.5/78.6	70/80	66.3/75.4	70/80
460 Volts Three Phase								
3	THC036E4	BAYHTRE406*	6.0	1	13.0	15	12.1	15
3	THC036E4	BAYHTRE412*	12.0	2	22.0	25	21.1	25
3	THC036E4	BAYHTRE418*	17.4	2	30.1	35	29.3	30
4	THC048E_F4	BAYHTRX406*	6.0	1	14.0	15	12.1	15
4	THC048E_F4	BAYHTRX412*	12.0	2	23.0	25	21.1	25
4	THC048E_F4	BAYHTRX418*	17.4	2	31.1	35	29.3	30
5	THC060E_F4	BAYHTRX406*	6.0	1	14.0	20	12.3	15
5	THC060E_F4	BAYHTRX412*	12.0	2	23.0	25	21.1	25
5	THC060E_F4	BAYHTRX418*	17.4	2	31.1	35	29.3	30
5	THC060E_F4	BAYHTRX423*	23.0	2	39.6	40	37.8	40

(a) Heater kW ratings are at 208/240V for 208/230V units, 480V for 460V units.

Table 156. Unit wiring with electric heat (single point connection) - high efficiency - 6-10 tons

Tons	Unit Model Number	Heater Model Number	Heater kW Rating[a]	Control Stages	Standard Indoor Motor MCA	Standard Indoor Motor Max Fuse Size or Max Circuit Breaker	Oversize Indoor Motor MCA	Oversize Indoor Motor Max Fuse Size or Max Circuit Breaker
208/230 Volts Three Phase								
6	THC072E/F3	BAYHTRU309*	6.8/9.0	1	32.3/33.4	50/50	33.6/35.0	50/50
6	THC072*3	BAYHTRU318*	13.5/18.0	1	53.1/60.4	60/70	54.8/62.0	60/70
6	THC072*3	BAYHTRU327*	20.3/27.0	2	76.6/87.5	80/90	78.3/89.1	80/90
6	THC072*3	BAYHTRU336*	27.0/36.0	2	100.1/114.5	110/125	101.8/116.1	125/110
7½	THC092F3	BAYHTRA309*	6.8/9.0	1	41.9/41.9	50/50	—/—	—/—
7½	THC092F3	BAYHTRA318*	13.5/18.0	1	57.5/64.8	60/70	—/—	—/—
7½	THC092F3	BAYHTRA327*	20.3/27.0	2	81.0/91.9	90/100	—/—	—/—
7½	THC092F3	BAYHTRA336*	27.0/36.0	2	104.5/118.9	110/125	—/—	—/—
8½	THC102F3	BAYHTRA309*	6.8/9.0	1	42.0/42.0	50/50	—/—	—/—
8½	THC102F3	BAYHTRA318*	13.5/18.0	1	57.5/64.8	60/70	—/—	—/—
8½	THC102F3	BAYHTRA327*	20.3/27.0	2	81.0/91.9	90/100	—/—	—/—
8½	THC102F3	BAYHTRA336*	27.0/36.0	2	104.5/118.9	110/125	—/—	—/—
10	THC120E3	BAYHTRD318*	13.5/18.0	1	57.5/64.8	60/70	—/—	—/—
10	THC120E3	BAYHTRD327*	20.3/27.0	2	81.0/91.9	90/100	—/—	—/—
10	THC120E3	BAYHTRD336*	27.0/36.0	2	104.5/118.9	110/125	—/—	—/—
10	THC120E3	BAYHTRD354*	40.6/54.0	2	151.4/140.5	175/150	—/—	—/—
460 Volts Three Phase								
6	THC072*4	BAYHTRU409*	9.0	1	16.6	20	17.4	20
6	THC072*4	BAYHTRU418*	18.0	1	30.3	35	31.0	35
6	THC072*4	BAYHTRU427*	27.0	2	43.8	45	44.5	45
6	THC072*4	BAYHTRU436*	36.0	2	57.3	60	58.0	60
7½	THC092F4	BAYHTRA409*	9.0	1	19.9	25	—	—
7½	THC092F4	BAYHTRA418*	18.0	1	32.5	35	—	—
7½	THC092F4	BAYHTRA427*	27.0	2	46.0	50	—	—
7½	THC092F4	BAYHTRA436*	36.0	2	59.5	60	—	—
8½	THC102F4	BAYHTRA409*	9.0	1	21.6	25	—	—
8½	THC102F4	BAYHTRA418*	18.0	1	32.5	35	—	—
8½	THC102F4	BAYHTRA427*	27.0	2	46.0	50	—	—
8½	THC102F4	BAYHTRA436*	36.0	2	59.5	60	—	—
10	THC120E4	BAYHTRD418*	18.0	1	32.5	35	—	—
10	THC120E4	BAYHTRD427*	27.0	2	46.0	50	—	—
10	THC120E4	BAYHTRD436*	36.0	2	59.5	60	—	—
10	THC120E4	BAYHTRD454*	54.0	2	70.4	80	—	—

(a) Heater kW ratings are at 208/240V for 208/230V units, 480V for 460V units.

Table 157. Electrical characteristics - compressor motor and condenser fan motor - 60 cycle - high efficiency

Unit Model		Compressor Motors							Condenser Fan Motors				
Tons	Number	No.	Volts	Phase	hp	rpm	RLA	LRA	No.	Volts	Phase	hp	FLA	LRA
3	T/YHC036E1	1	208-230	1	2.7	3500	16.7	79.0	1	208-230	1	0.20	1.5	2.4
3	T/YHC036E3	1	208-230	3	2.7	3500	10.4	73.0	1	208-230	1	0.20	1.5	2.4
3	T/YHC036E4	1	460	3	2.7	3500	5.8	38.0	1	460	1	0.20	0.6	1.3
3	T/YHC036EW	1	575	3	2.7	3500	3.8	36.5	1	575	1	0.40	0.8	2.0
4	T/YHC048F1	1	208-230	1	3.6	3500	21.8	117.0	1	208-230	1	0.40	2.5	6.6
4	T/YHC048E_F3	1	208-230	3	3.5	3500	13.7	83.1	1	208-230	1	0.40	2.5	6.6
4	T/YHC048E_F4	1	460	3	3.5	3500	6.2	41.0	1	460	1	0.40	1.0	2.8
4	YHC048FW	1	575	3	3.5	3500	4.8	33	1	575	1	0.40	0.8	2.0
5	T/YHC060F1	1	208-230	1	4.4	3500	25.0	134.0	1	208-230	1	0.40	2.5	6.6
5	T/YHC060E_F3	1	208-230	3	4.3	3500	15.9	110.0	1	208-230	1	0.40	2.5	6.6
5	T/YHC060E_F4	1	460	3	4.3	3500	7.1	52.0	1	460	1	0.40	1.0	2.8
5	YHC060FW	1	575	3	4.1	3500	5.1	39.5	1	575	1	0.40	0.8	2.0
6	T/YHC072E/F3	1	208-230	3	4.9	3500	19.2	136.0	1	208-230	1	0.70	3.3	9.5
6	T/YHC072E/F4	1	460	3	4.9	3500	8.7	66.0	1	460	1	0.70	1.8	5.5
6	YHC072E/FW	1	575	3	4.8	3500	6.9	55	1	575	1	0.75	2.4	6.2
7½	T/YHC092F3	2	208-230	3	4.1/2.4	3500/3500	15.9/10.0	110.0/71.0	1	208-230	1	0.75	3.5	9.3
7½	T/YHC092F4	2	460	3	4.1/2.4	3500/3500	7.1/4.7	52.0/38.0	1	460	1	0.75	2.0	6.2
7½	YHC092FW	2	575	3	3.8/2.4	3500/3500	5.1/3.7	40/28	1	575	1	0.75	2.4	6.2
8½	T/YHC102F3	2	208-230	3	4.5/2.4	3500/3500	15.6/10.0	110.0/71.0	1	208-230	1	0.75	3.5	9.3
8½	T/YHC102F4	2	460	3	4.5/2.4	3500/3500	7.8/4.7	52.0/38.0	1	460	1	0.75	2.0	6.2
8½	YHC102FW	2	575	3	4.6/2.4	3500/3500	5.8/3.7	39/28	1	575	1	0.75	2.4	6.2
10	T/YHC120E3	2	208-230	3	5.1/3.0	3500/3500	19.6/13.2	136.0/88.0	1	208-230	3	0.75	2.7	9.8
10	T/YHC120E4	2	460	3	5.1/3.0	3500/3500	8.2/6.0	66.0/44.0	1	460	3	0.75	1.5	4.8
10	YHC120FW	2	575	3	5.1/3.0	3500/3500	6.6/4.2	55/30	1	575	1	0.75	1.2	4.8

Table 158. Electrical characteristics - evaporator fan motor - 60 cycle - direct drive - high efficiency[a]

Unit Model		Motor						
Tons	Number	Volts	Hz	Phase	No.	FLA	LRA	bhp
3	T/YHC036E1	208-230	60	1	1	6.0	—	0.75
3	T/YHC036E3	208-230	60	1	1	6.0	—	0.75
3	T/YHC036E4	460	60	1	1	3.2	—	0.75
3	YHC036EW	575[b]	60	1	1	2.4	—	0.75
4	T/YHC048F1	208-230	60	1	1	7.6	—	1.00
4	T/YHC048E_F3	208-230	60	1	1	7.6	—	1.00
4	T/YHC048E_F4	460	60	1	1	4.0	—	1.00
4	YHC048FW	575[b]	60	1	1	3.0	—	1.00
5	T/YHC060F1	208-230	60	1	1	7.6	—	1.00
5	T/YHC060E_F3	208-230	60	1	1	7.6	—	1.00
5	T/YHC060E_F4	460	60	1	1	4.0	—	1.00
5	YHC060FW	575[b]	60	1	1	3.0	—	1.00

(a) Belt drive indoor motor is standard equipment on T/YHC036E-T/YHC060E with optional dehumidification.
(b) 575V rated units utilize a high efficiency 230 evaporator fan motor powered through a 575/230V transformer. Motor voltage/FLA rated at transformer input.

Table 159. Electrical characteristics - evaporator fan motor - 60 cycle - optional belt drive - high efficiency[a]

Tons	Unit Model Number	Volts	Hz	Phase	No.	FLA	LRA	bhp
3	T/YHC036E3	208-230	60	3	1	5.0	32.2	1.00
3	T/YHC036E4	460	60	3	1	2.5	16.1	1.00
3	YHC036EW	575	60	3	1	1.7	13.2	1.00
4	T/YHC048E3	208-230	60	3	1	5.0	32.2	1.00
4	T/YHC048E4	460	60	3	1	2.5	16.1	1.00
4	T/YHC048F3	208-230	60	3	1	5.0	32.2	1.00
4	T/YHC048E4	460	60	3	1	2.5	16.1	1.00
4	YHC048FW	575	60	3	1	1.7	13.2	1.00
5	T/YHC060E3	208-230	60	3	1	5.0	32.2	1.00
5	T/YHC060E4	460	60	3	1	2.5	16.1	1.00
5	T/YHC060F3	208-230	60	3	1	5.0	32.2	1.00
5	T/YHC060F4	460	60	3	1	2.5	16.1	1.00
5	YHC060FW	575	60	3	1	1.7	13.2	1.00

(a) Belt drive indoor motor is standard equipment on T/YHC036E-T/YHC060E with optional dehumidification.

Table 160. Electrical characteristics - standard evaporator fan motor - 60 cycle - direct or belt drive - high efficiency

Tons	Unit Model Number	Direct or Belt Drive	Volts	Hz	Phase	hp	FLA	LRA
6	T/YHC072*3	Belt Drive	208-230	60	3	1.0	4.0-5.0	24.5
6	T/YHC072*4	Belt Drive	460	60	3	1.0	2.5	12.3
6	YHC072*W	Belt Drive	575[a]	60	3	1.5	1.7	—
7½	T/YHC092F3	Direct Drive	208-230	60	3	3.8	8.5-8.5	—
7½	T/YHC092F4	Direct Drive	460	60	3	3.6	4.3	—
7½	YHC092FW	Direct Drive	575[a]	60	3	3.4	31	—
8½	T/YHC102F3	Direct Drive	208-230	60	3	3.8	8.5-8.5	—
8½	T/YHC102F4	Direct Drive	460	60	3	3.6	4.3	—
8½	YHC102FW	Direct Drive	575[a]	60	3	3.4	3.1	—
10	T/YHC120E3	Direct Drive	208-230	60	3	3.8	8.5-8.5	—
10	T/YHC120E4	Direct Drive	460	60	3	3.6	4.3	—
10	YHC120EW	Direct Drive	575[a]	60	3	3.4	3.1	—

(a) Precedent 575V rated units utilize a high efficiency 380-480V evaporator fan motor powered through a 575/480V transformer assembly.

Table 161. Electrical characteristics - oversize evaporator fan motor - 60 cycle - direct or belt drive - high efficiency

Tons	Unit Model Number	Direct or Belt Drive	Volts	Hz	Phase	hp	FLA	LRA
6	T/YHC072*3	Belt Drive	208-230	60	3	2.0	6.3-6.2	48.0
6	T/YHC072*4	Belt Drive	460	60	3	2.0	3.1	24.0
6	YHC072*W	Belt Drive	575	60	3	2.5	2.0	18.2

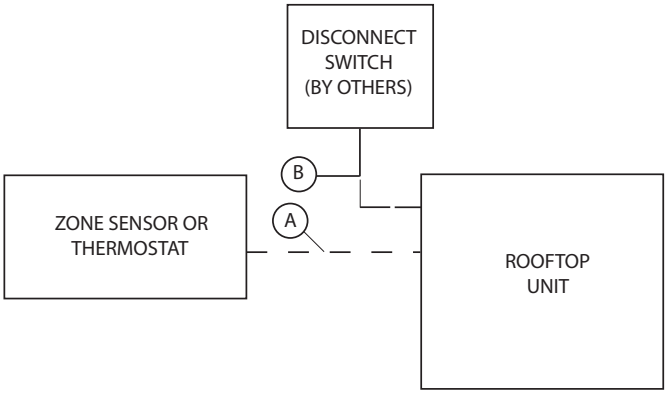
Table 162. Electrical characteristics - inducer motor

Unit Model Number	Stages	hp	rpm	Volts	Phase	LRA
YHC036E(L,M,X,Y) YHC(048,060)E, F	1	1/35	3000	208-230	1	0.6
YHC036E(H,Z)	1	1/15	3300	208-230	1	0.4
YHC072*(L,M,X,Y) YHC(092-102)**(L,X)	1	1/35	3000	208-230	1	0.6
YHC072*(H,Z) YHC(092-102)(M,H,Y,Z) YHC120	2	1/15	3350	208-230	1	0.4

Jobsite Connections

Table 163.Typical Number of Wires

	Zone Sensors	
A	Manual Changeover.....	4
	Manual/Auto Changeover.....	5
	Manual/Auto Changeover with Status Indication LED's.....	10
	Programmable Night Setback with Status Indication LED's.....	7
	Thermostats	
A	3 Wires, 24V, Cooling only	
	4 Wires, 24V, with Electric Heat	
B	3 Power Wires + 1 Ground Wire (3-phase)	
	2 Power Wires + 1 Ground Wire (1-phase)	



For specific wiring information, see the installation instructions.
All wiring except power wire is low voltage.
All customer supplied wiring to be copper and must conform to applicable electrical codes (such as NEC or CEC) and local electric codes. Wiring shown dotted is to be furnished and installed by the customer.

Dimensional Data

Figure 1. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency

Notes:
1. All dimensions are in inches/millimeters.
2. ½ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

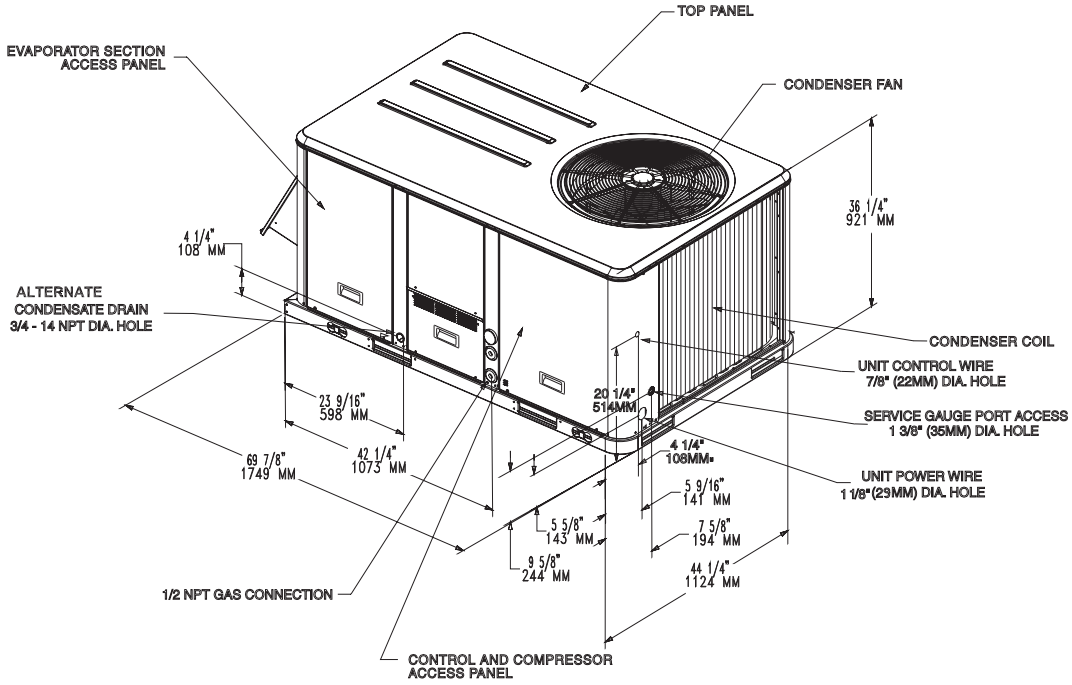
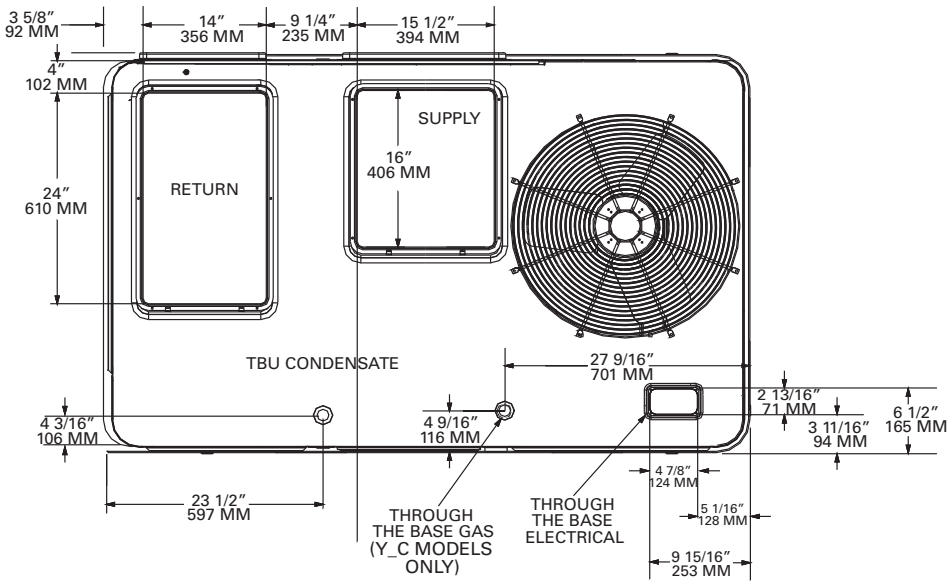


Figure 2. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency downflow airflow supply/return - through-the-base utilities

Note: All dimensions are in inches/millimeters.

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 3. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency horizontal airflow supply/return

Note: All dimensions are in inches/millimeters.

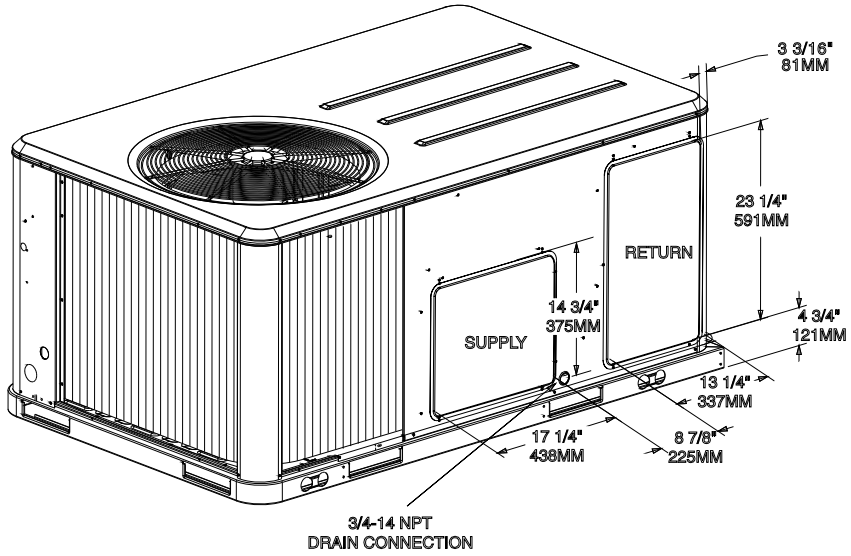


Figure 4. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency unit clearance and roof opening

Note: All dimensions are in inches/millimeters.

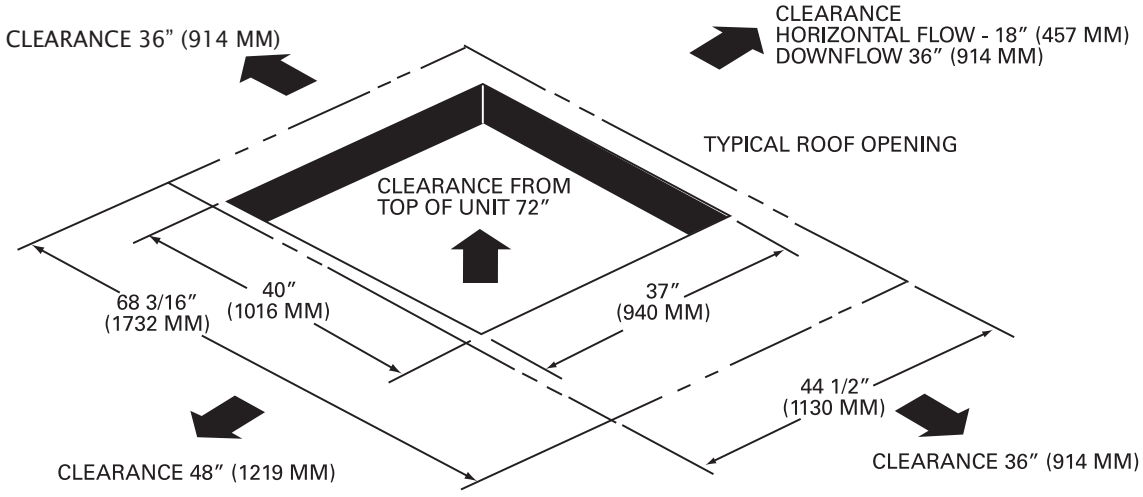


Figure 5. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency - roof curb

Note: All dimensions are in inches/millimeters.

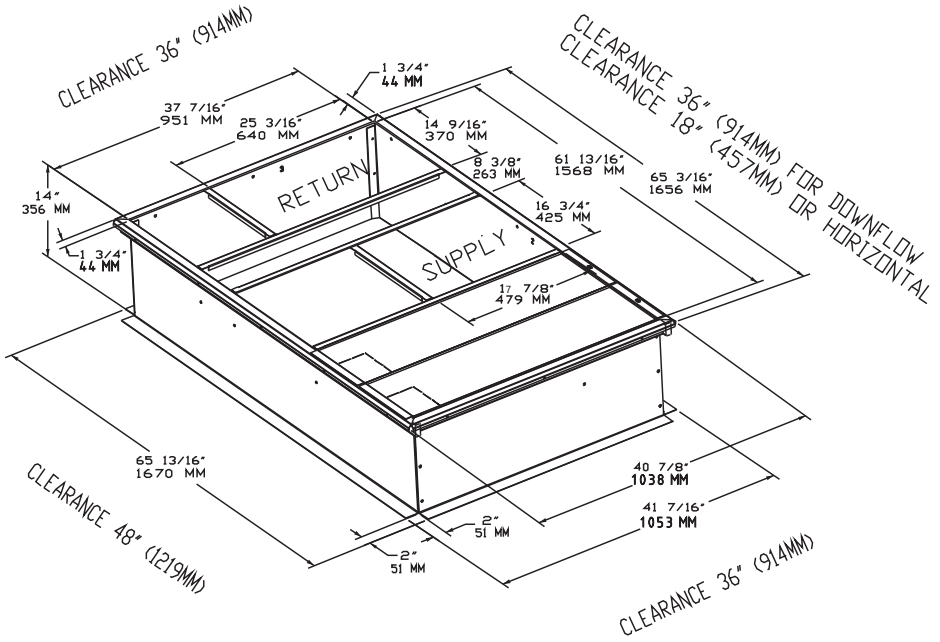
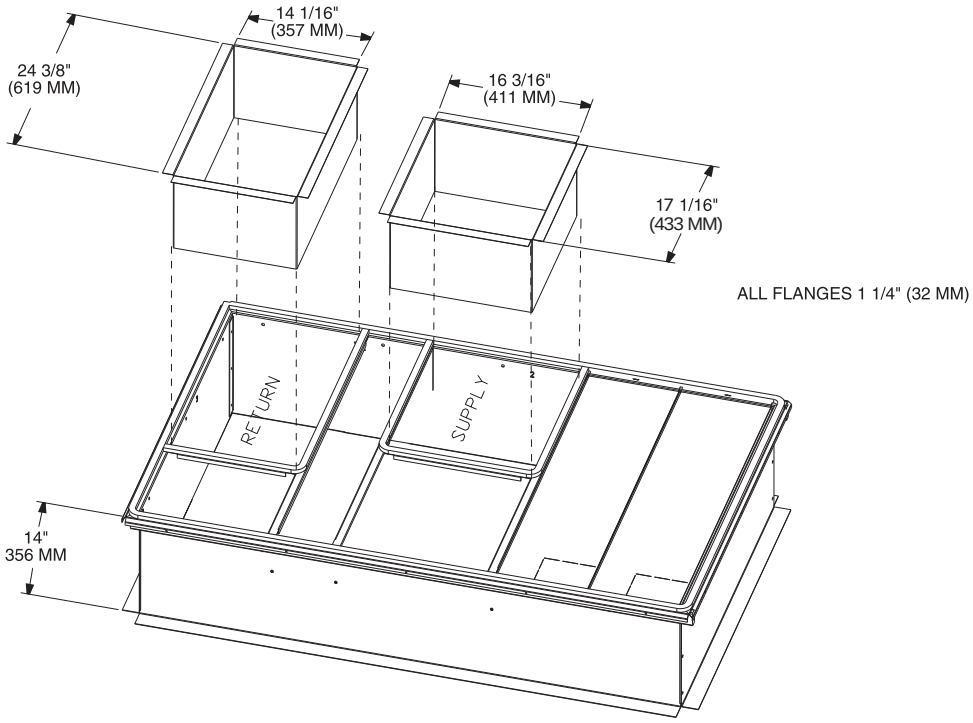


Figure 6. Cooling and gas/electric - 3-5 tons standard efficiency; 3 tons high efficiency downflow duct connections - field fabricated

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 7. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency economizer, manual or motorized fresh air damper; power exhaust

Note: All dimensions are in inches/millimeters.

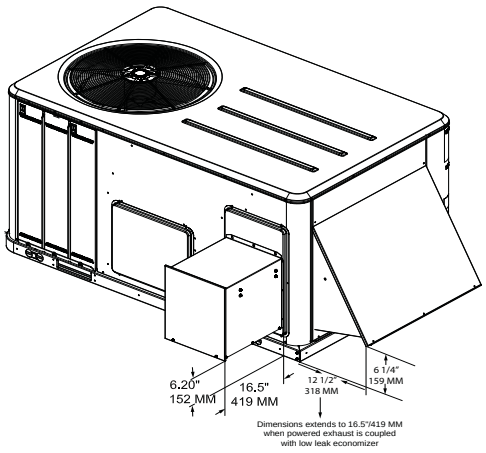


Figure 8. Cooling and gas/electric - 3-5 tons standard efficiency, 3 tons high efficiency economizer & barometric relief damper hood

Note: All dimensions are in inches/millimeters.

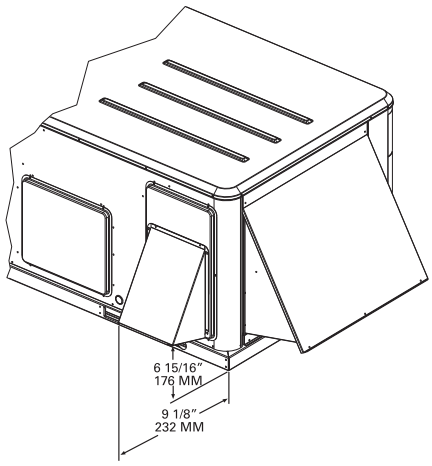


Figure 9. Cooling and gas/electric models - 3-5 tons standard efficiency, 3 tons high efficiency swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

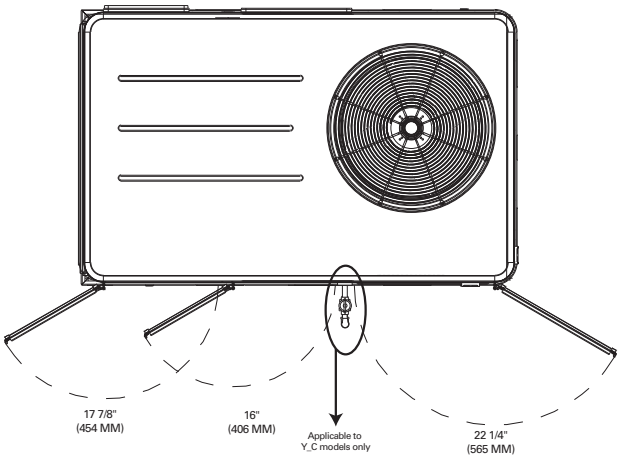


Figure 10. Gas/electric models - 3-5 tons standard efficiency, 3 tons high efficiency height of gas pipe required from inside base of unit to gas shut off assembly (factory provided) - Y_C models only

Note: All dimensions are in inches/millimeters.

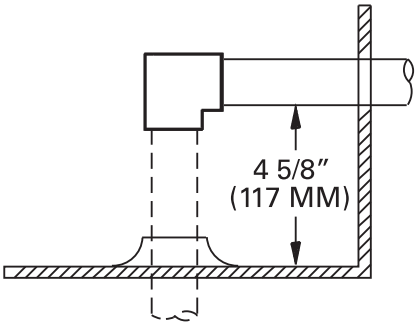


Figure 11. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency

Note: All dimensions are in inches/millimeters.

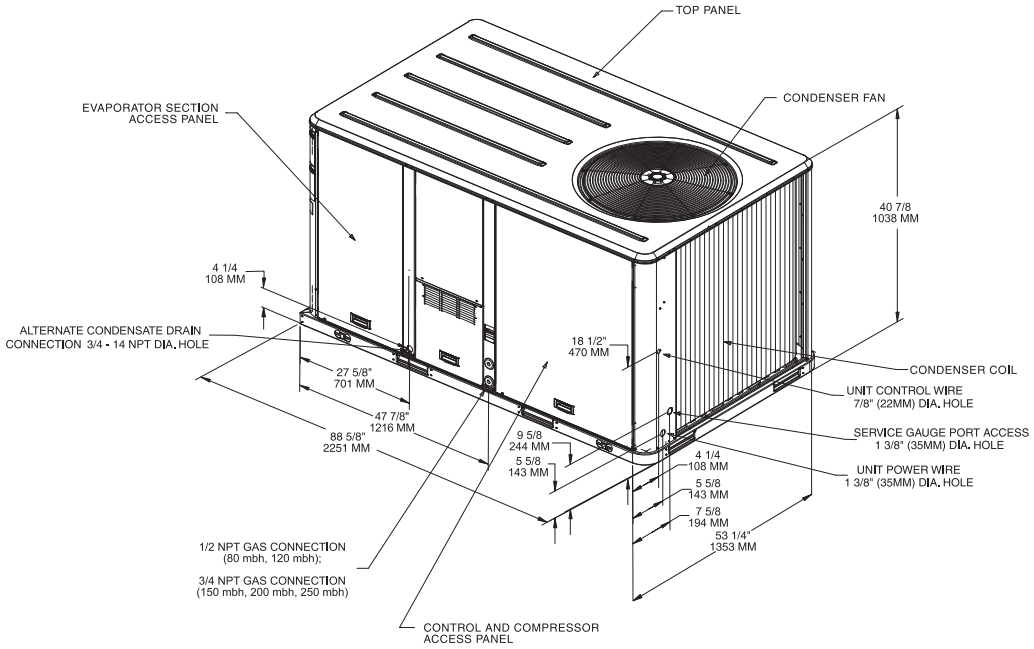
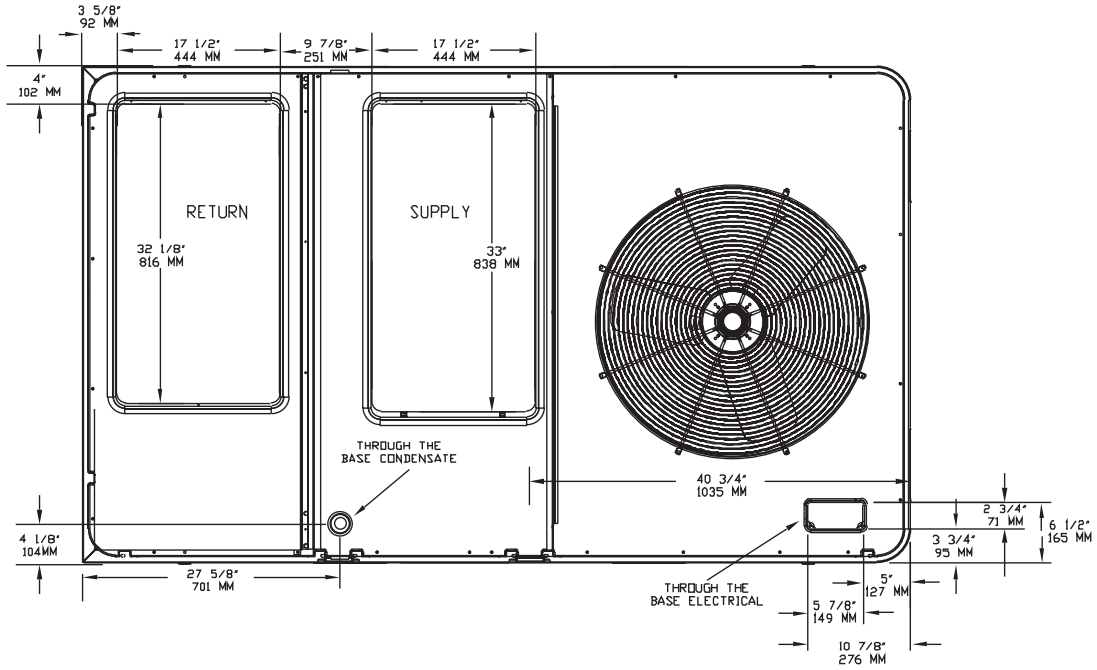


Figure 12. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency downflow airflow supply/return - through-the-base utilities

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 13. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency horizontal airflow supply and return

Note: All dimensions are in inches/millimeters.

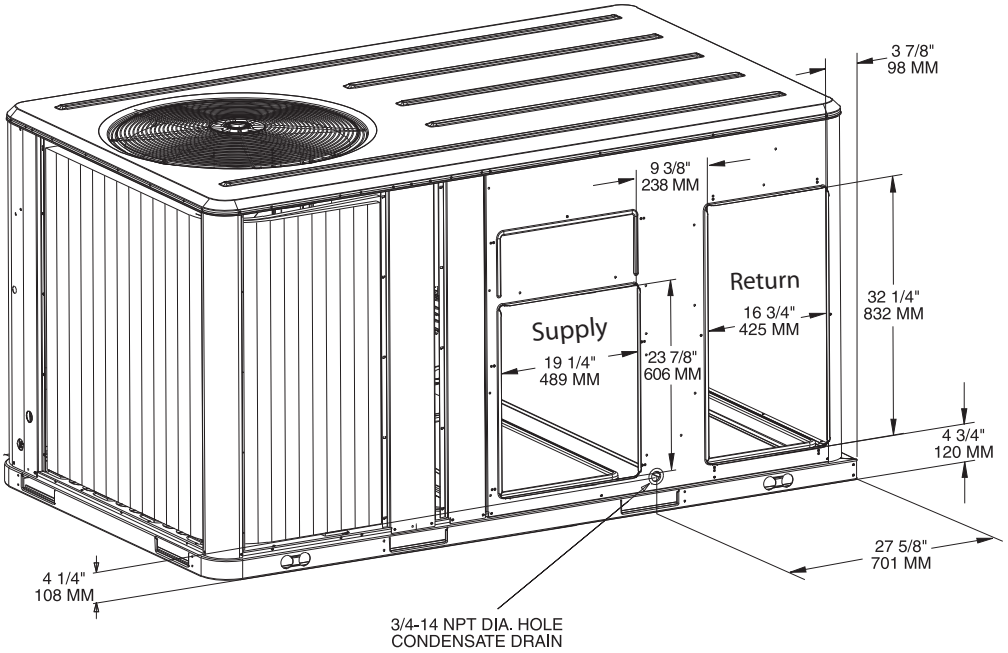


Figure 14. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency unit clearance and roof opening

Note: All dimensions are in inches/millimeters.

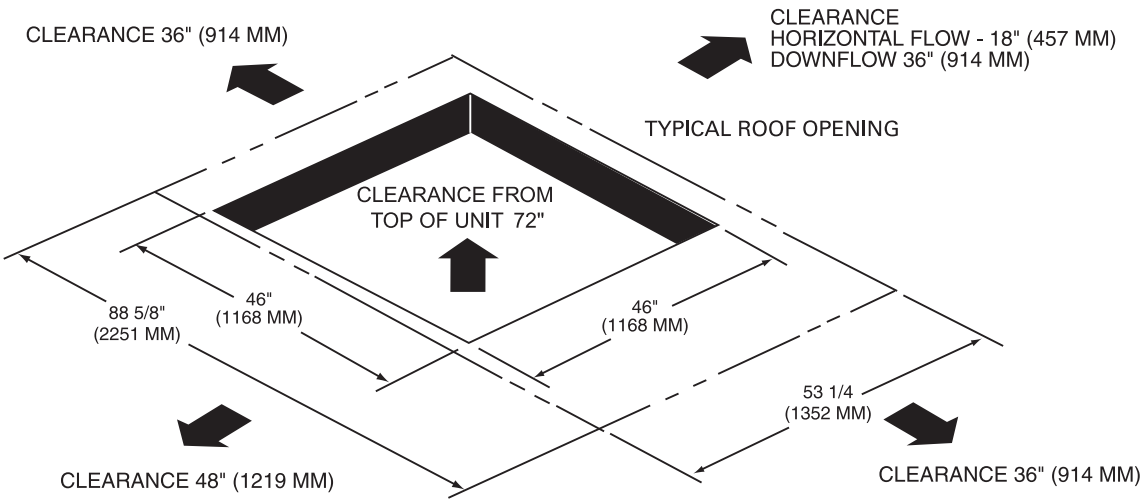


Figure 15. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency - roof curb

Note: All dimensions are in inches/millimeters.

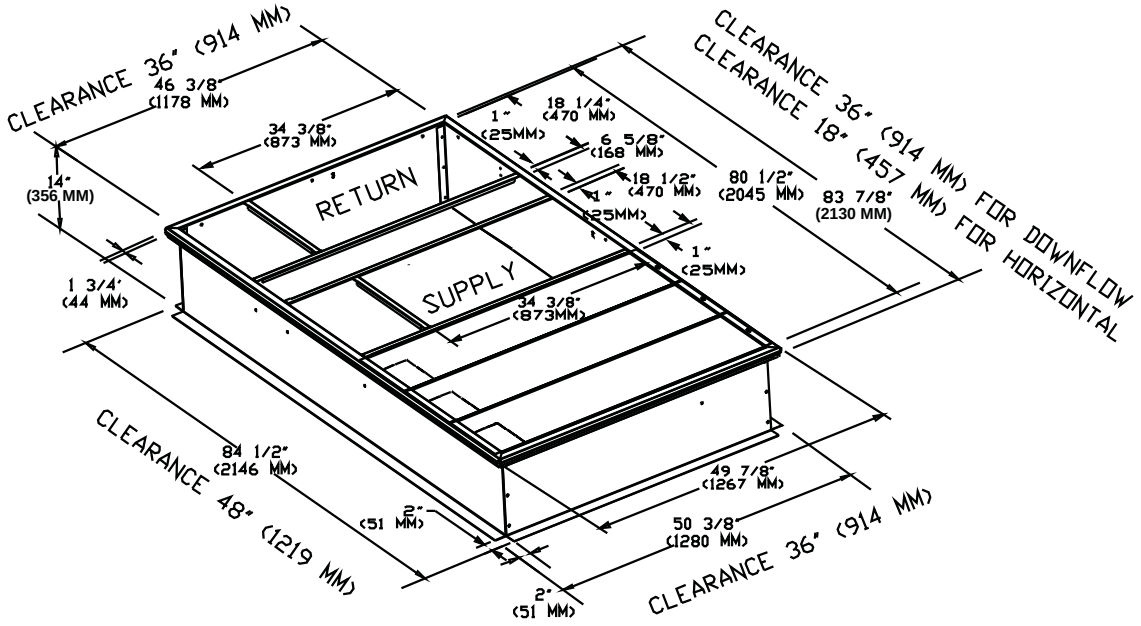


Figure 16. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency downflow duct connections field fabricated

Note: All dimensions are in inches/millimeters.
Note: See "Clearance required from duct to combustible surfaces (inches)," p. 19 for duct clearance to combustible materials.

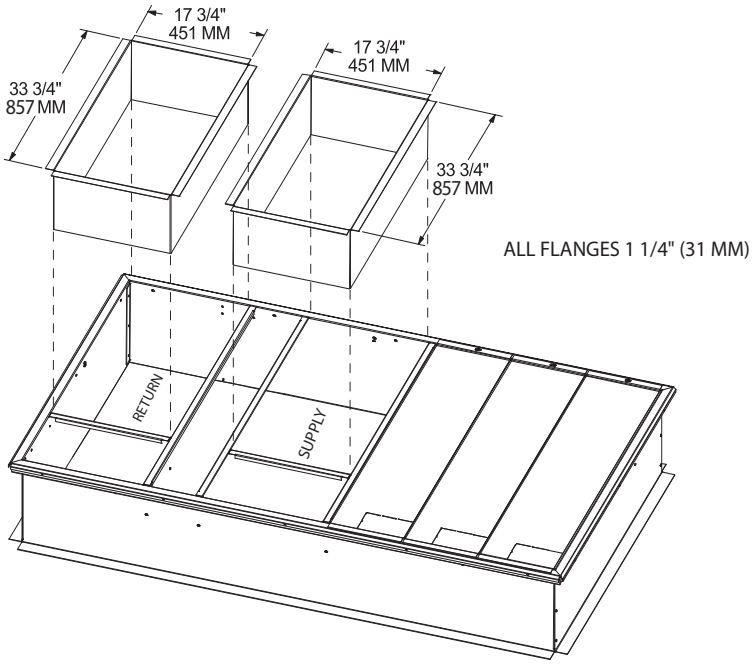


Figure 17. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

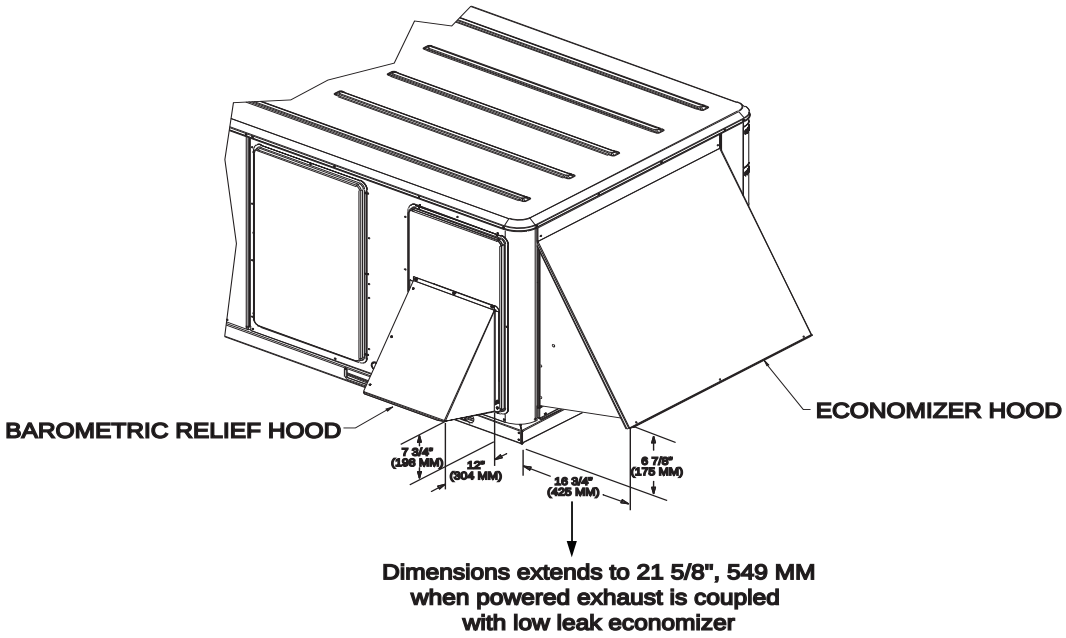


Figure 18. Cooling and gas/electric - 6, 7½ (single) tons standard efficiency, 4-5 tons high efficiency swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

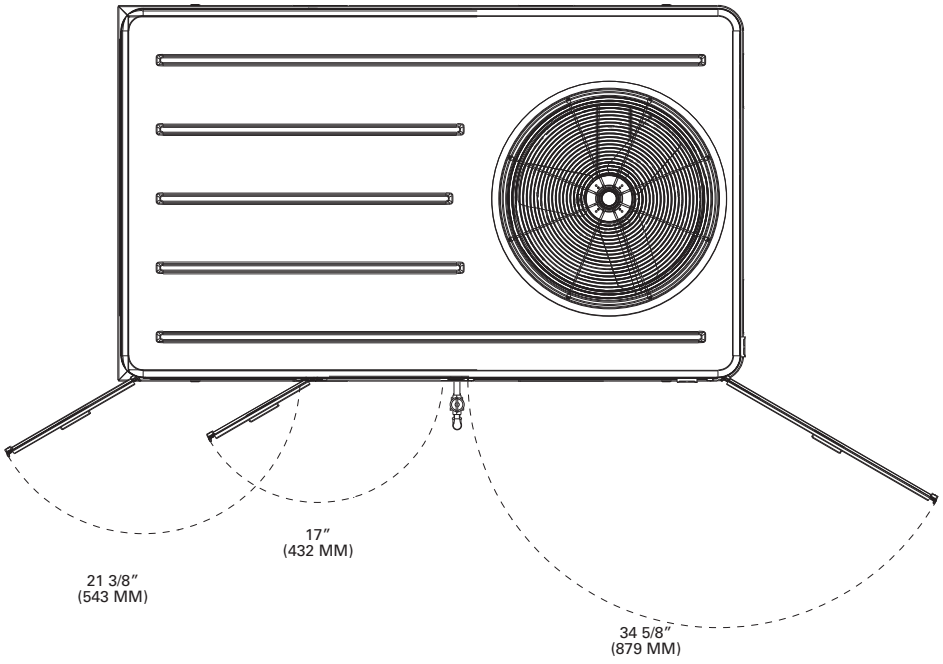


Figure 19. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency) - 10 tons standard efficiency, 6-8½ tons high efficiency

Note: All dimensions are in inches/millimeters.

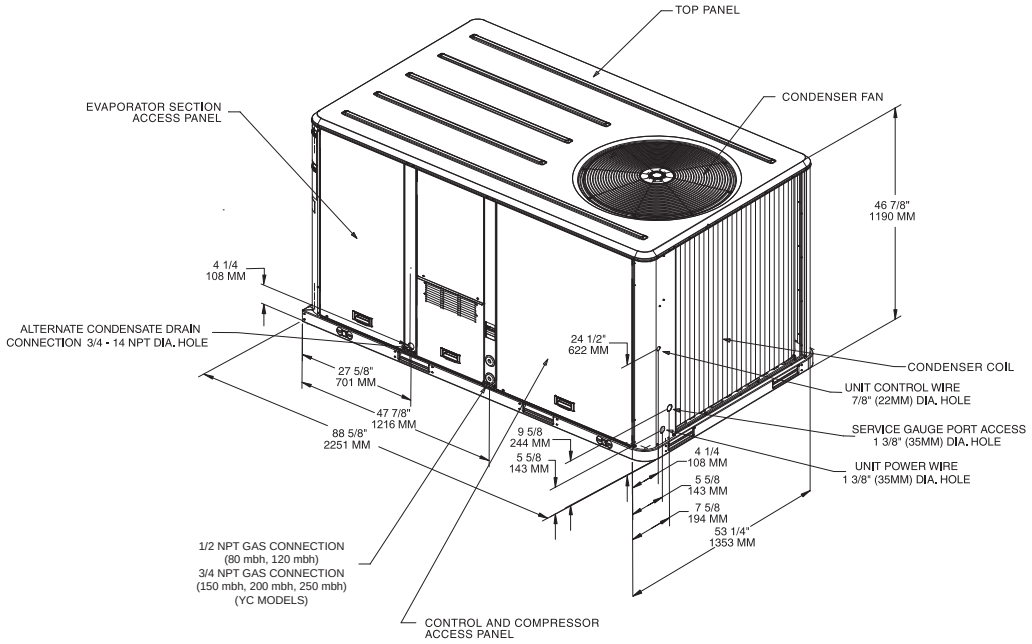
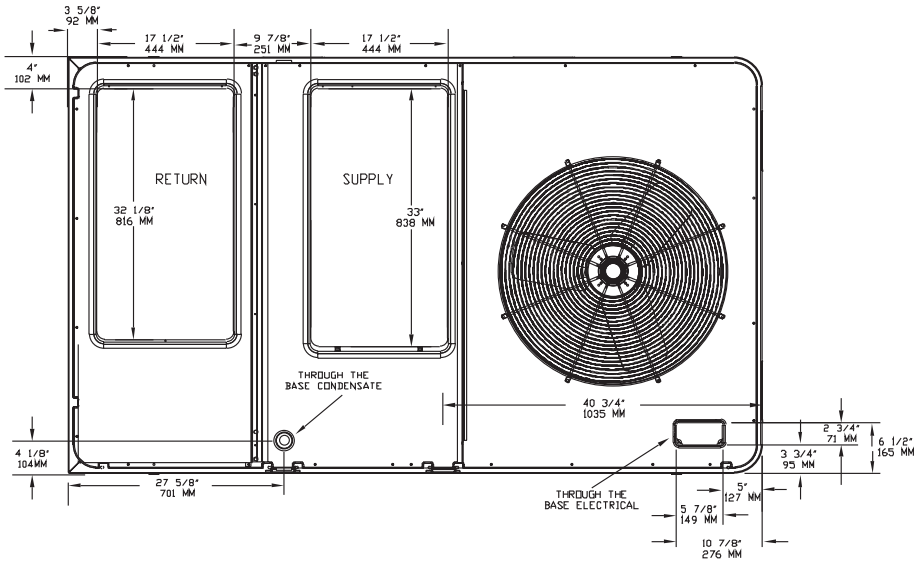


Figure 20. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency) - 10 tons standard efficiency, 6-8½ tons high efficiency; downflow airflow supply/return through-the-base utilities

Note: All dimensions are in inches/millimeters.



Dimensional Data

Figure 21. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency) - 10 tons standard efficiency, 6-8½ tons high efficiency; horizontal airflow supply and return

Note: All dimensions are in inches/millimeters.

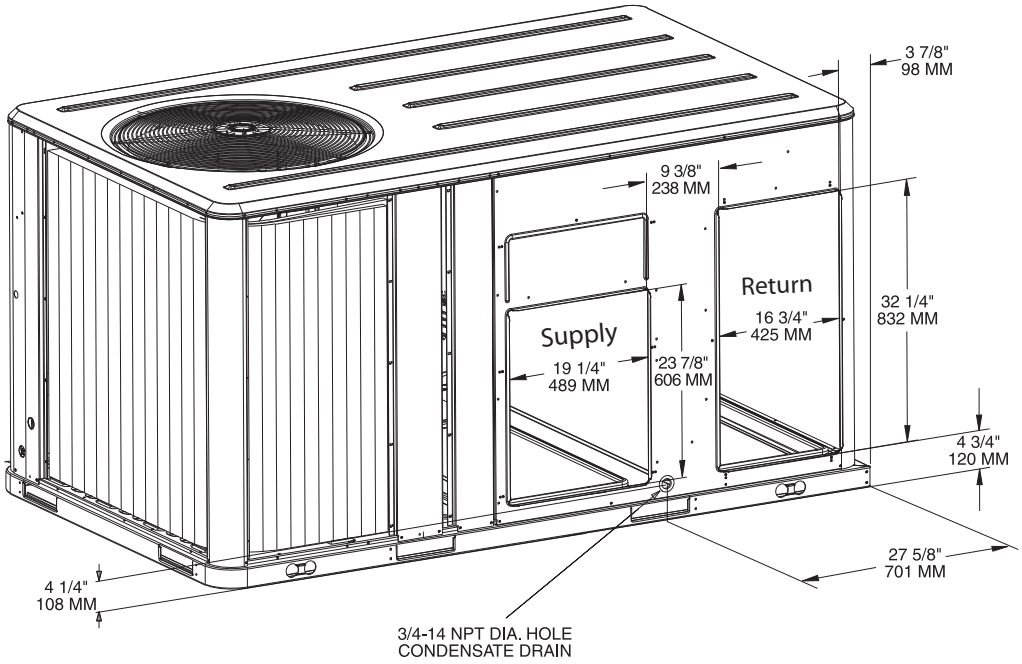


Figure 22. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency), 10 tons standard efficiency, 6-8½ tons high efficiency; unit clearance and roof opening

Note: All dimensions are in inches/millimeters.

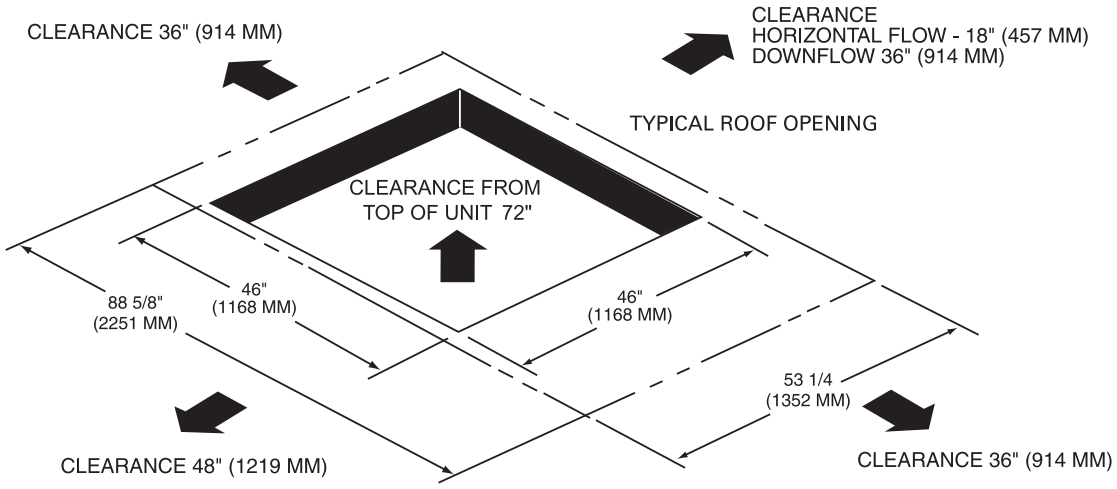


Figure 23. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency), 10 tons standard efficiency, 6-8½ tons high efficiency; roof curb

Note: All dimensions are in inches/millimeters.

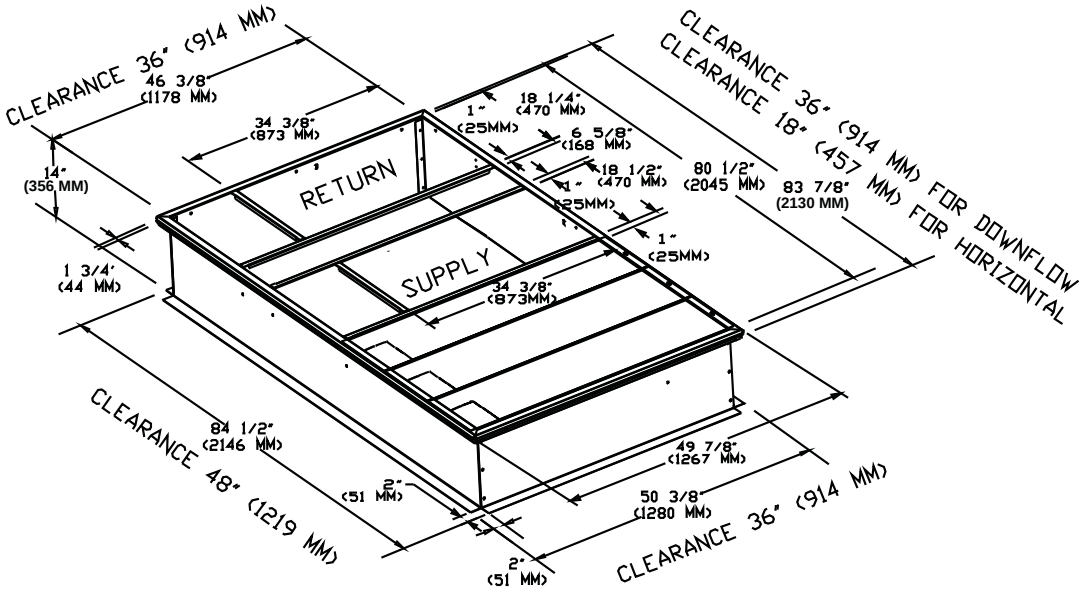
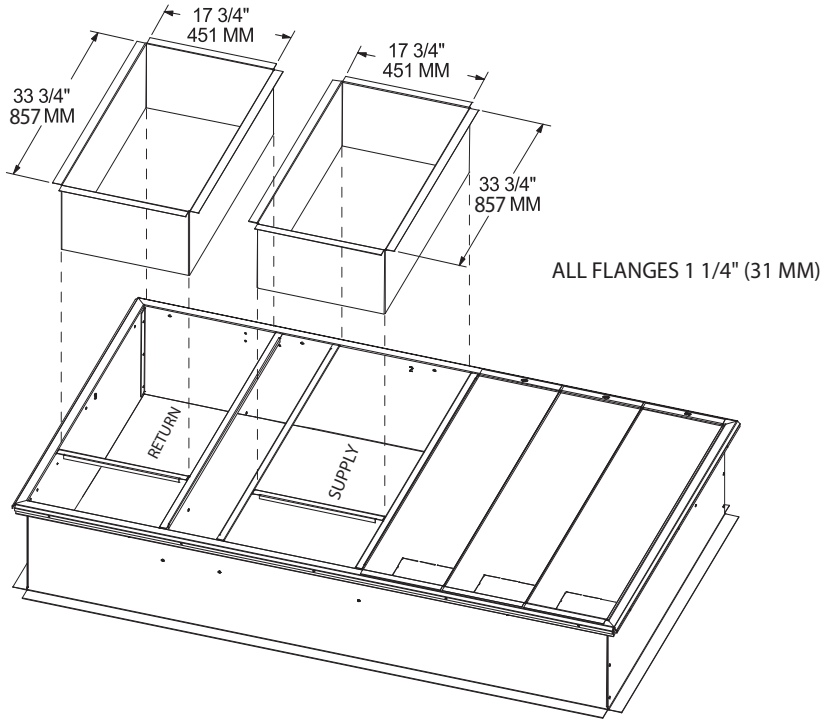


Figure 24. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency), 10 tons standard efficiency downflow, 6-8½ tons high efficiency; duct connections field fabricated

Note: All dimensions are in inches/millimeters.
Note: See "Clearance required from duct to combustible surfaces (inches)," p. 19 for duct clearance to combustible materials.



Dimensional Data

Figure 25. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency), 10 tons standard efficiency, 6-8½ tons high efficiency; power exhaust

Note: All dimensions are in inches/millimeters.

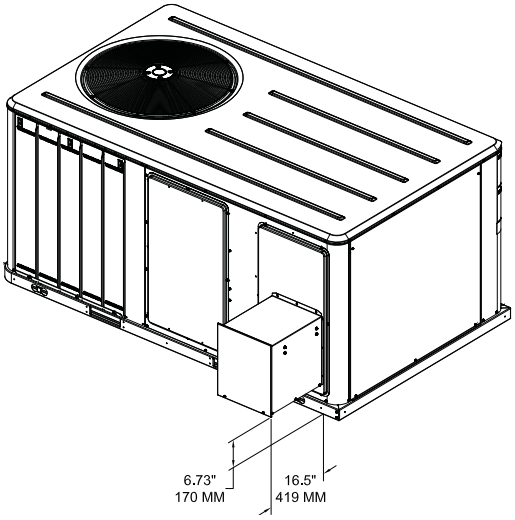


Figure 26. Cooling and gas/electric - 7½ tons (dual compressor standard efficiency), 10 tons standard efficiency, 6-8½ tons high efficiency; swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

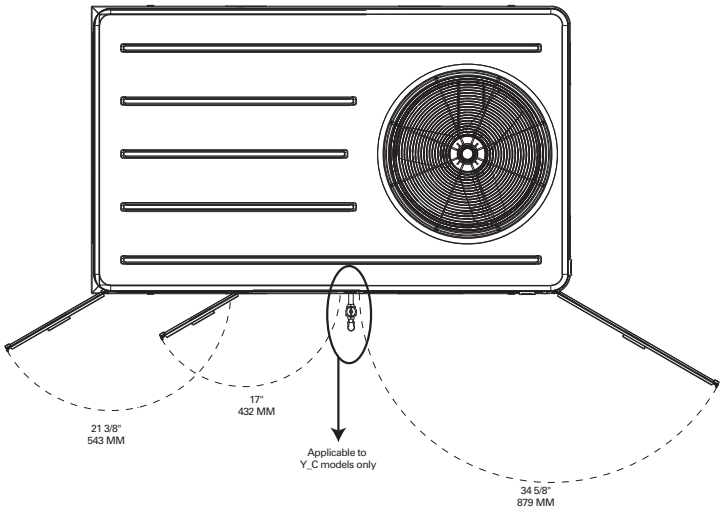


Figure 27. Cooling and gas/electric - 6-10 tons standard efficiency, 4-6 tons high efficiency, 7½-8½ tons high efficiency; economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

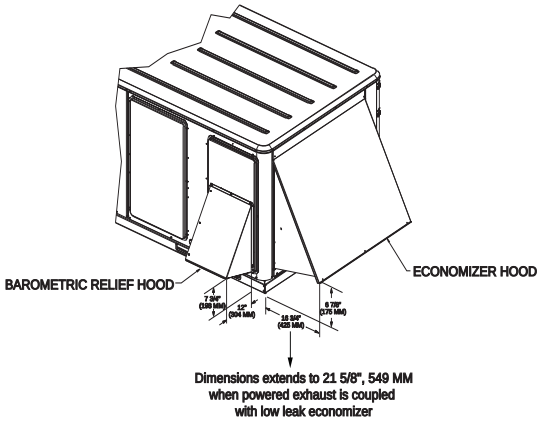


Figure 28. Gas/electric - 6-10 tons standard efficiency, 4-6 tons high efficiency, 7½-8½ tons high efficiency; height of gas pipe required from inside base of unit to gas shut off assembly (factory provided) - Y_C models only

Note: All dimensions are in inches/millimeters.

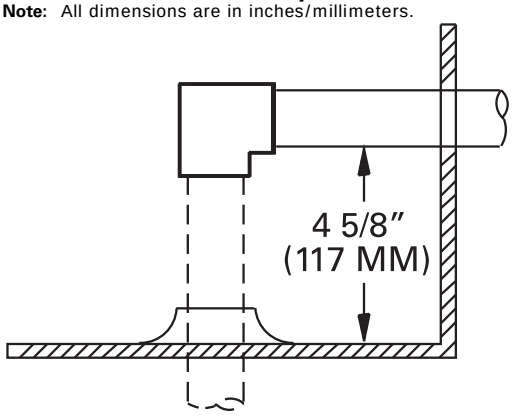


Figure 29. Cooling and gas/electric -10 tons high efficiency

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

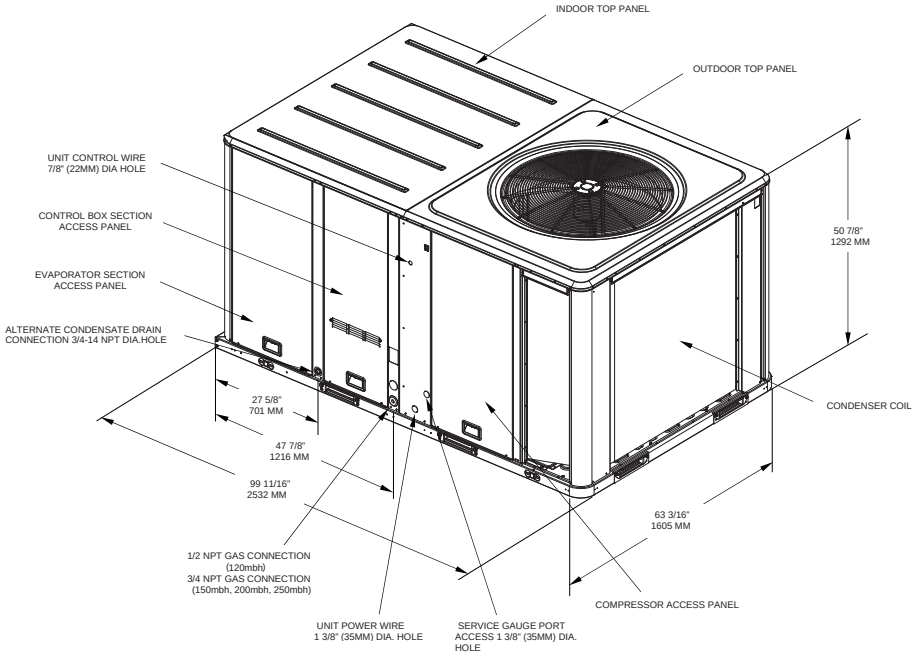
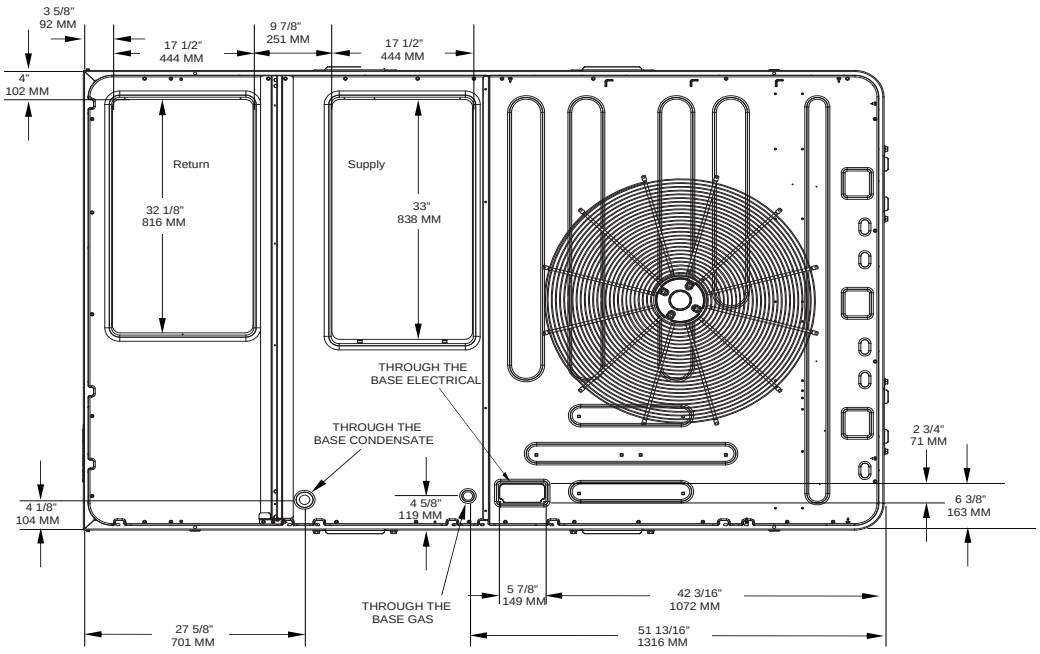


Figure 30. Cooling and gas/electric - 10 tons high efficiency; downflow airflow supply/return, through-the-base utilities

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)



Dimensional Data

Figure 31. Cooling and gas/electric - 10 tons high efficiency; horizontal airflow supply/return

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

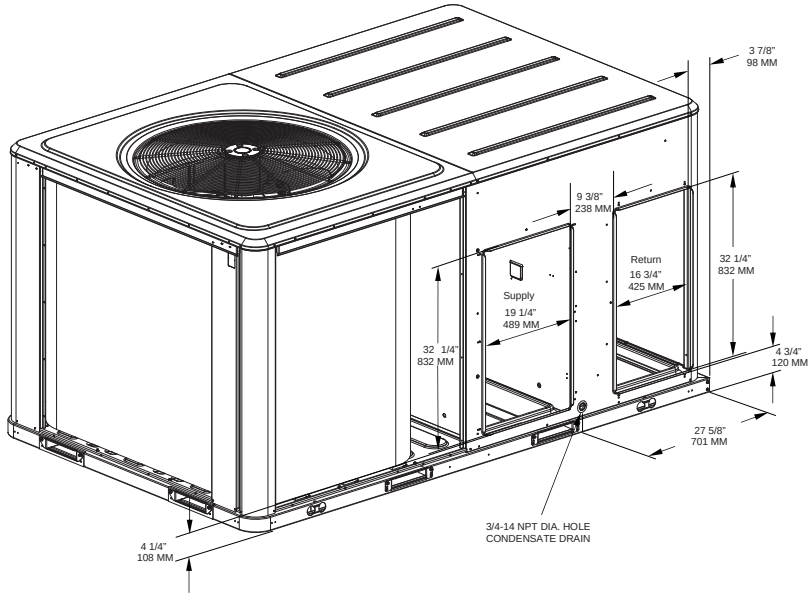


Figure 32. Cooling and gas/electric - 10 tons high efficiency; unit clearance and roof opening

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

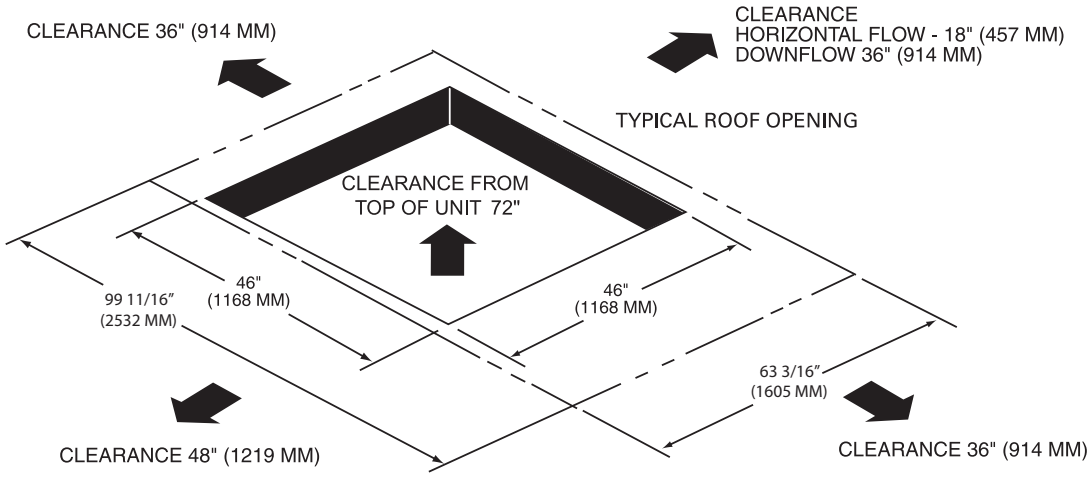


Figure 33. Cooling and gas/electric - 10 tons high efficiency - roof curb

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)

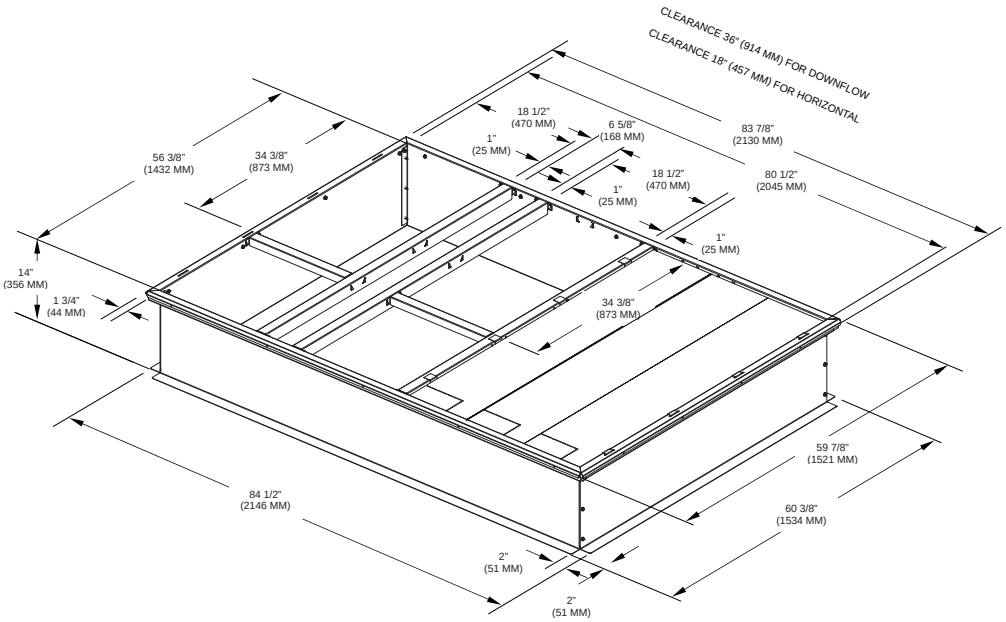
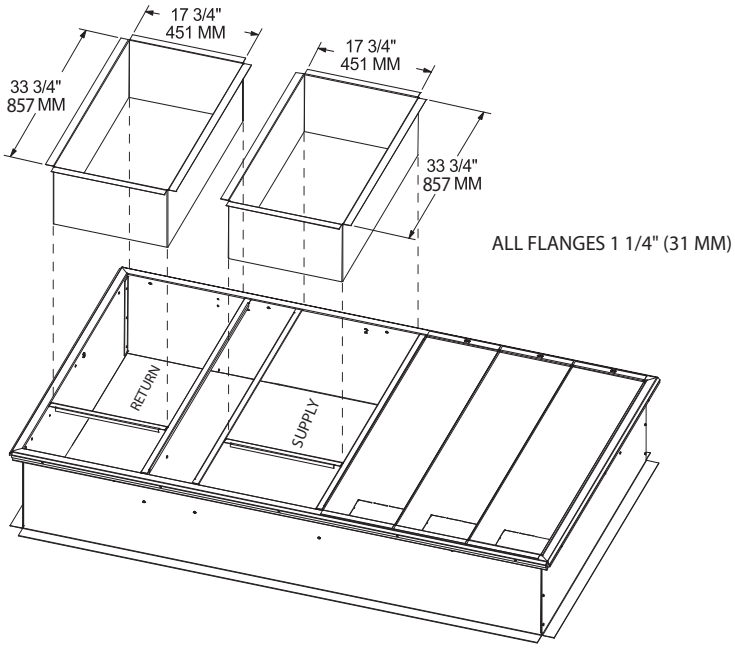


Figure 34. Cooling and gas/electric - 10 tons high efficiency; duct connections field fabricated

Notes:
1. All dimensions are in inches/millimeters.
2. ½ or ¾ NPT Gas Connection = (Y_C Models only); 2" Electrical Connection: Single Point Power When Heat Installed (T_C Models only.)
3. See "Clearance required from duct to combustible surfaces (inches)," p. 19 for duct clearance to combustible materials.



Dimensional Data

Figure 35. Cooling and gas/electric - 10 tons high efficiency - power exhaust

Note: All dimensions are in inches/millimeters.

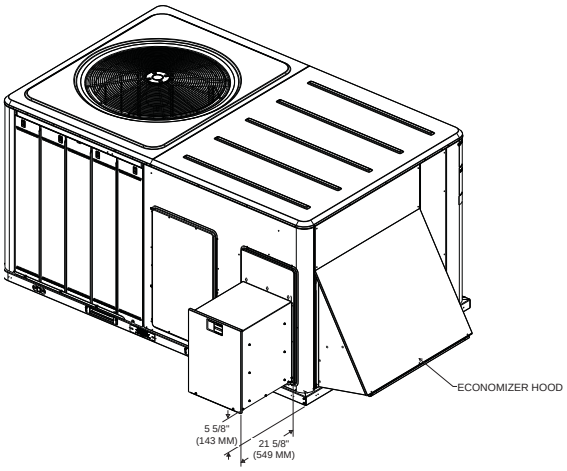


Figure 36. Cooling and gas/electric - 10 tons high efficiency; swing diameter for hinged door(s) option

Note: All dimensions are in inches/millimeters.

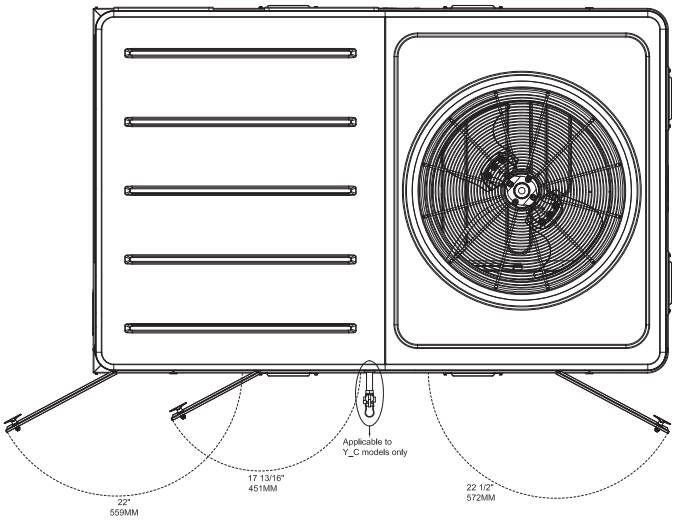


Figure 37. Cooling and gas/electric - 10 tons high efficiency - economizer, manual or motorized fresh air damper

Note: All dimensions are in inches/millimeters.

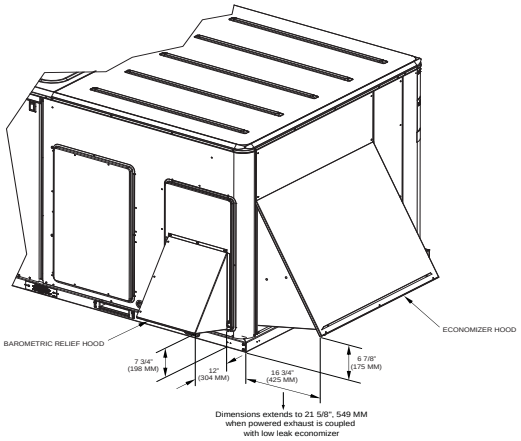
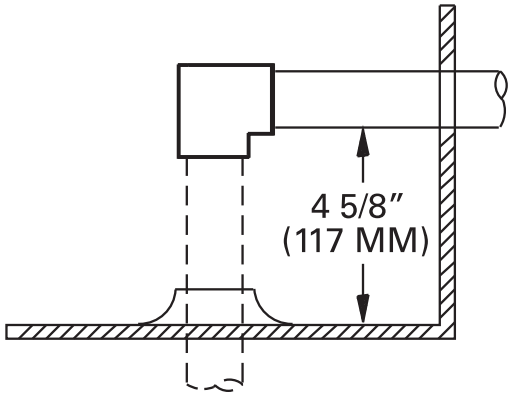


Figure 38. Gas/electric - 10 tons high efficiency - height of gas pipe required from inside base of unit to gas shut off assembly (factory provided) - Y_C models only

Note: All dimensions are in inches/millimeters.

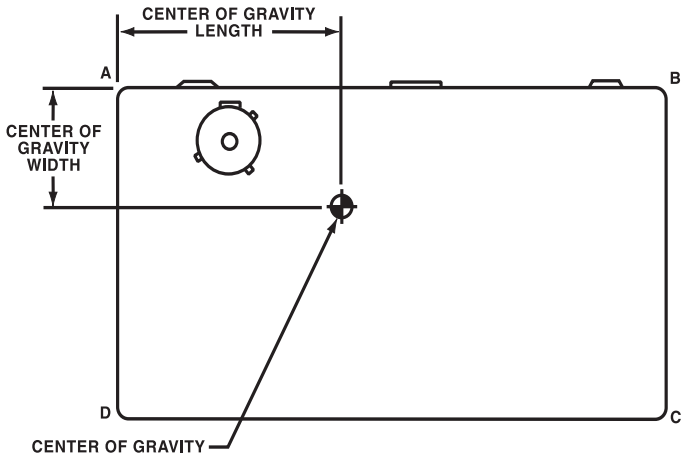


Weights

Table 164. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.) - cooling models

	Unit	Maximum Model Weights[a]		Corner Weights[b]				Center of Gravity (in.)	
Tons	Model No.	Shipping	Net	A	B	C	D	Length	Width
3	TSC036E	555	481	157	122	95	107	31	19
4	TSC048E	586	511	167	129	101	114	31	19
5	TSC060E	636	561	183	142	111	125	31	19
6	TSC072F	762	667	218	186	131	132	44	21
7½	TSC090F	781	686	222	195	136	134	44	21
7½	TSC092F	940	797	249	235	163	149	46	21
8½	TSC102F	999	856	264	239	177	175	45	22
10	TSC120F	1058	960	320	218	233	189	40	24
3	THC036E	555	481	157	122	95	107	31	19
4	THC048E	787	692	220	178	132	163	40	23
4	THC048F	737	642	208	177	128	130	44	22
5	THC060E	841	746	241	193	139	173	39	22
5	THC060F	774	679	219	189	135	137	43	21
6	THC072E	943	845	274	172	186	213	41	24
6	THC072F	883	740	228	219	155	138	47	21
7½	THC092F	1026	928	315	209	224	180	40	24
8½	THC102F	1035	937	316	212	227	181	49	24
10	THC120E	1446	1252	355	334	268	285	48	28

(a) Weights are approximate.
(b) Corner weights are given for information only.



Weights

Table 165. Maximum unit & corner weights (lbs) and center of gravity dimensions (in.) - gas/electric models

Unit		Maximum Model Weights[a]		Corner Weights[b]				Center of Gravity (in.)	
Tons	Model No.	Shipping	Net	A	B	C	D	Length	Width
3	YSC036E	607	532	165	137	95	134	31	19
4	YSC048E	638	563	175	145	101	142	31	19
5	YSC060E	688	613	190	158	110	155	31	19
6	YSC072F	805	710	222	217	121	150	41	22
7½	YSC090F	862	767	243	221	155	149	45	21
7½	YSC092F	990	847	265	249	173	160	46	21
8½	YSC102F	1047	904	279	252	187	186	44	22
10	YSC120F	1156	1058	345	242	258	213	41	23
3	YHC036E	607	532	165	137	95	134	31	19
4	YHC048E	858	763	238	200	148	176	40	23
4	YHC048F	806	711	226	199	144	143	44	22
5	YHC060E	917	822	261	218	156	187	40	22
5	YHC060F	850	755	239	214	152	151	44	21
6	YHC072E	1025	927	296	198	205	228	41	24
6	YHC072F	965	822	250	245	174	153	47	21
7½	YHC092F	1124	1026	340	233	249	204	41	23
8½	YHC102F	1133	1035	341	236	253	205	49	23
10	YHC120E	1563	1369	386	379	299	305	49	28

(a) Weights are approximate.
(b) Corner weights are given for information only.

Table 166. Factory installed options (fiops)/accessory net weights (lbs)[a],[b]

	T/YSC036E-060E T/YHC036E	T/YHC048E-060E T/YHC048F-060F	T/YSC072F-102F T/YHC072E/F	T/YSC120F T/YHC092F-102F	T/YHC120E
	Net Weight	Net Weight	Net Weight	Net Weight	Net Weight
Accessory	3-5 Tons	4-5 Tons	6-10 Tons	7½, 8½, 10	10
Barometric Relief	7	10	10	10	10
Belt Drive Option (3 phase only)	31	31	—	—	—
Coil Guards	12	20	20	20	30
Economizer	26	36	36	36	36
Electric Heaters[c]	15	30	30	44	50
Hinged Doors	10	12	12	12	12
Low Leak Economizer	68	93	93	93	93
Manual Outside Air Damper	16	26	26	26	26
Motorized Outside Air Damper	20	30	30	30	30
Novar Control	8	8	8	8	8
Oversized Motor	5	8	8	—	—
Powered Convenience Outlet	38	38	38	38	50
Powered Exhaust	40	40	80	80	80
Reheat Coil	12	14	15	20[d]	30
Roof Curb	61	78	78	78	89
Smoke Detector, Supply	5	5	5	5	5

continued on next page

Table 166. Factory installed options (fiops)/accessory net weights (lbs)[a],[b]

Accessory	T/YSC036E-060E T/YHC036E Net Weight 3-5 Tons	T/YHC048E-060E T/YHC048F-060F Net Weight 4-5 Tons	T/YSC072F-102F T/YHC072E/F Net Weight 6-10 Tons	T/YSC120F T/YHC092F-102F Net Weight 7½, 8½, 10	T/YHC120E Net Weight 10
Smoke Detector, Return	7	7	7	7	7
Stainless Steel Heat Exchanger[e]	4	6	6	6	6
Through-the-Base Electrical	8	13	13	13	13
Through-the-Base Gas	5	5	5	5	5
Unit Mounted Circuit Breaker	5	5	5	5	5
Unit Mounted Disconnect	5	5	5	5	5

(a) Weights for options not listed are <5 lbs.
(b) Net weight should be added to unit weight when ordering factory-installed accessories.
(c) Applicable to Cooling units only.
(d) Reheat weight for this value only applicable to 7.5 and 8.5 Ton High Efficiency “F” models.
(e) Applicable to Gas/Electric units only.

Mechanical Specifications

General

The units shall be convertible airflow. The operating range shall be between 115°F and 0°F in cooling as standard from the factory for units with microprocessor controls. Operating range for units with electromechanical controls shall be between 115°F and 40°F. Cooling performance shall be rated in accordance with AHRI testing procedures. All units shall be factory assembled, internally wired, fully charged with R-410A, and 100 percent run tested to check cooling operation, fan and blower rotation, and control sequence before leaving the factory. Wiring internal to the unit shall be colored and numbered for simplified identification. Units shall be cULus listed and labeled, classified in accordance for Central Cooling Air Conditioners.

Casing

Unit casing shall be constructed of zinc coated, galvanized steel. Exterior surfaces shall be cleaned, phosphatized, and finished with a weather-resistant baked enamel finish. Unit's surface shall be tested 672 hours in a salt spray test in compliance with ASTM B117. Cabinet construction shall allow for all maintenance on one side of the unit. Service panels shall have lifting handles and be removed and reinstalled by removing two fasteners while providing a water and air tight seal. All exposed vertical panels and top covers in the indoor air section shall be insulated with a cleanable foil-faced, fire-retardant permanent, odorless glass fiber material. The base of the unit shall be insulated with 1/8 inch, foil-faced, closed-cell insulation. All insulation edges shall be either captured or sealed. The unit's base pan shall have no penetrations within the perimeter of the curb other than the raised 1 1/8 inch high downflow supply/return openings to provide an added water integrity precaution, if the condensate drain backs up. The base of the unit shall have provisions for forklift and crane lifting, with forklift capabilities on three sides of the unit.

Compressors

All units shall have direct-drive, hermetic, scroll type compressors with centrifugal type oil pumps. Motor shall be suction gas-cooled and shall have a voltage utilization range of plus or minus 10 percent of unit nameplate voltage. Internal overloads shall be provided with the scroll compressors.

Crankcase heaters are optional on 3-10 ton standard efficiency units and standard on 3-10 ton high efficiency units.

Dual compressors are outstanding for humidity control, light load cooling conditions and system back-up applications. Dual compressors are available on 7½-10 ton models and allow for efficient cooling utilizing 3-stages of compressor operation for all high efficiency models.

Controls

Unit shall be completely factory-wired with necessary controls and contactor pressure lugs or terminal block for power wiring. Unit shall provide an external location for mounting a fused disconnect device.

A choice of microprocessor or electromechanical controls shall be available.

Microprocessor controls provide for all 24V control functions. The resident control algorithms shall make all heating, cooling, and/or ventilating decisions in response to electronic signals from sensors measuring indoor and outdoor temperatures. The control algorithm maintains accurate temperature control, minimizes drift from set point, and provides better building comfort. A centralized microprocessor shall provide anti-short cycle timing and time delay between compressors to provide a higher level of machine protection.

24-volt electromechanical control circuit shall include control transformer and contactor pressure lugs for power wiring. Units shall have single point power entry as standard.

Evaporator and Condenser Coils

Internally finned, 5/16" copper tubes mechanically bonded to a configured aluminum plate fin shall be standard. The microchannel type condenser coil is standard for all 6-10 ton standard efficiency

models and 4,5,6, 7½, 8½ ton high efficiency models. The microchannel type condenser coil is not offered on the 4 and 5 ton dehumidification model. Due to flat streamlined tubes with small ports, and metallurgical tube-to-fin bond, microchannel coil has better heat transfer performance. Microchannel condenser coil can reduce system refrigerant charge by up to 50% because of smaller internal volume, which leads to better compressor reliability. Compact all-aluminum microchannel coils also help to reduce the unit weight. These all aluminum coils are recyclable. Galvanic corrosion is also minimized due to all aluminum construction. Strong aluminum brazed structure provides better fin protection. In addition, flat streamlined tubes also make microchannel coils more dust resistant and easier to clean. Coils shall be leak tested at the factory to ensure the pressure integrity. The evaporator coil and condenser coil shall be leak tested to 600 psig. The assembled unit shall be leak tested to 465 psig. The condenser coil shall have a patent pending 1+1+1 hybrid coil designed with slight gaps for ease of cleaning. A plastic, dual-sloped, removable and reversible condensate drain pan with through-the-base condensate drain is standard.

Filters

Throwaway filters shall be standard on all units. Optional 2-inch MERV 8 and MERV 13 filters shall also be available.

Gas Heating Section

The heating section shall have a progressive tubular heat exchanger design using stainless steel burners and corrosion resistant steel throughout. An induced draft combustion blower shall be used to pull the combustion products through the firing tubes. The heater shall use a direct spark ignition (DSI) system. On initial call for heat, the combustion blower shall purge the heat exchanger for 20 seconds before ignition After three unsuccessful ignition attempts, the entire heating system shall be locked out until manually reset at the thermostat/zone sensor. Units shall be suitable for use with natural gas or propane (field-installed kit) and also comply with the California requirement for low NOx emissions (Gas/Electric Only).

High Pressure Control

All units include High Pressure Cutout as standard.

Indoor Fan

The following units shall be equipped with a direct drive plenum fan design (T/YSC120F, T/YHC092F, T/YHC102F, 120E). Plenum fan design shall include a backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor. All plenum fan designs will have a variable speed adjustment potentiometer located in the control box.

3-5 ton units (standard efficiency 3-phase or high efficiency 3-phase with optional motor) are belt driven, FC centrifugal fans with adjustable motor sheaves. 3-5 ton units (1-phase or high efficiency 3-phase) have multispeed, direct drive motors. All 6-8½ ton units (standard efficiency) shall have belt drive motors with an adjustable idler-arm assembly for quick-adjustment to fan belts and motor sheaves. All motors shall be thermally protected. All 10 tons and 7½-8½ (high efficiency) have variable speed direct drive motors. All indoor fan motors meet the U.S. Energy Policy Act of 1992 (EPACT).

Outdoor Fans

The outdoor fan shall be direct-drive, statically balanced, draw-through in the vertical discharge position. The fan motor shall be permanently lubricated and shall have built-in thermal overload protection.

Phase Monitoring Protection

Precedent™ units with 3-phase power are equipped with phase monitoring protection as standard. These devices protect motors and compressors against problems caused by phase loss, phase imbalance and phase reversal indication.

Plenum Fan

All 10 tons and 7½-8½ ton high efficiency units shall be equipped with a direct drive plenum fan design. Plenum fan design shall include a backward-curved fan wheel along with an external rotor direct drive variable speed indoor motor. All plenum fan designs will have a variable speed adjustment potentiometer located in the control box.

Refrigerant Circuits

Each refrigerant circuit offer thermal expansion valve as standard. Service pressure ports, and refrigerant line filter driers are factory-installed as standard. An area shall be provided for replacement suction line driers.

Unit Top

The top cover shall be one piece construction or where seams exist, it shall be outside the indoor air-conditioned section. The ribbed top adds extra strength and prevents water from pooling on unit top.

Factory Installed Options

Black Epoxy Pre-Coated Coils[1]

The black epoxy coils have a thermoset vinyl coating that is bonded to the aluminum fin stock prior to the fin-stamping process. The pre-coated coils are an economical option for protection in mildly corrosive environments.

CO_2 Sensor Wiring

The unit wiring for field installed $C0_2$ sensors. Factory-installed $C0_2$ sensor wiring saves time and ensures proper unit connections for the field installed $C0_2$ sensor kits.

CompleteCoat™ Coils

The cathodic epoxy type electrodisposition coating is formulated for high edge build to plate fin and tube heat exchangers. The coating is selected to provide excellent resistance and durability to corrosive effects of alkalies, acids, alcohols, petroleum, seawater, salt air and corrosive environments. This option is available for the plate fin-tube condenser coil and the microchannel type condenser coil.

The option shall be equipped with crankcase heater(s), low pressure switch(es), Frostat™, and a thermostatic expansion valve(s) (TXV) as standard.

Condensate Overflow Switch

This option shall shut the unit down in the event that a clogged condensate drain line prevents proper condensate removal from the unit.

Heat Exchanger

The compact cabinet features a tubular heat exchanger in low, medium and high heat capacities.

The heat exchanger is fabricated using stainless steel burners and corrosion-resistant aluminized steel tubes as standard on all models. It has an induced draft blower to pull the gas mixture through the burner tubes. The heater has a direct spark ignition system which doubles as a safety device to prove the flame.

Gas/Electric Precedent models exceed all California seasonal efficiency requirements. They also perform better than required to meet the California NOx emission requirements.

[1] Not available on microchannel condenser coils.

Hinged Access Doors

Sheet metal hinges are available on the Filter/Evaporator, Supply Fan/Heat, and the Compressor/ Control Access Doors.

Human Interface

The Human Interface shall have a 5 inch color touchscreen display that conforms to FCC Part 15 Class B with an Ingress Protection Rating of IP24. The display text shall be readable by a person with 20/20 vision at a distance of 3 feet and 60° angle at lighting levels ranging from 100 lux - 25,000 lux. Also, the display shall operate at temperatures of -40° C to 70° C. Firmware and unit configurations shall be able to be restored via a USB storage device.

Fault Detection & Diagnostics (FDD)

This offering meets the mandatory requirement of CA Title 24 of fully configurable diagnostics allowing fault history and reading fault codes at the unit. This option provides detection of the following faults: Air temperature sensor failure/fault and notification of acceptable economizer mode. The FDD system shall be certified by the Energy Commission as meeting the requirements.

Novar Return Air Zone Sensor

This option, when used in conjunction with Novar Controls, will contain a factory provided and wired zone temperature sensor located in the return air stream.

Novar Unit Controls

Optional Novar rooftop unit controls shall be installed and tested. The Novar electronic thermostat module will interface to the unit microprocessor and will control the unit to the desired stage of cooling or heating.

Powered or Unpowered Convenience Outlet

This is a GFCI, 120V/15amp, 2 plug, convenience outlet, either powered or unpowered. When the convenience outlet is powered, a service receptacle disconnect will be available. The convenience outlet is powered from the line side of the disconnect or circuit breaker, and therefore will not be affected by the position of the disconnect or circuit breaker. This option can only be ordered when the Through-the-Base Electrical with either the Disconnect Switch or Circuit Breaker option is ordered.

Single Zone VAV[1] – One Zone Variable Air Volume Mode

Single-zone VAV shall vary the indoor fan speed as the zone cooling or heating load changes, while cooling capacity is cycled to maintain the supply air temperature at setpoint. The indoor fan shall operate at maximum speed whenever the heater operating.

Note: *SZVAV requires the use of a zone temperature sensor. If a unit is configured for SZVAV, but is connected to a conventional thermostat, the unit will revert to multiple-speed (two-speed) indoor fan control.*

Multi-Speed Indoor Fan System

The multiple-speed (two-speed) indoor fan control option shall automatically switch operation of the indoor fan between high speed and low speed, based on the number of compressors operating. The indoor fan shall operate at high speed whenever the gas or electric heater is operating.

Multiple-Zone VAV Control

Multiple-zone VAV control shall vary the speed of the indoor fan to maintain the duct static pressure at a setpoint. In cooling mode, the compressors shall be cycled (or economizer modulated) to

[1] Single-Zone VAV requires the use of a zone temperature sensor. If a unit is configured for SZVAV, but is connected to a conventional thermostat, the unit will revert to multiple-speed (two-speed) indoor fan control

maintain the supply air temperature (SAT) at the desired setpoint. In heating mode, the indoor fan shall operate at maximum speed whenever the heater operating.

Stainless Steel Drain Pan

This option provides excellent corrosion and oxidation resistance. Drain pan shall be reversible and constructed of 304 stainless steel.

Stainless Steel Heat Exchanger

The optional stainless steel heat exchanger is constructed of 409 stainless steel. It is resistant to corrosion and oxidation and easy to clean.

The high strength to weight ratio allows for high ventilation rates with gas units. It is an excellent option to compliment the dehumidification option as a high outside air ventilation unit.

With this option, a 10-year stainless steel heat exchanger warranty is standard.

Supply, Return and Plenum Air Smoke Detector

With this option installed, if smoke is detected, all unit operation will be shut down. Reset will be manual at the unit. In order for the supply air smoke detector or return air smoke detector to properly sense smoke in the supply air stream or the return air stream, the air velocity entering the smoke detector unit must be between 500 - 4000 feet per minute. Equipment covered in this manual will develop an airflow velocity that falls within these limits over the entire airflow range specified in the evaporator fan performance table. Supply and/or Return Smoke Detectors may not be used with the Plenum Smoke Detector.

Thermal Expansion Valve

Thermal Expansion Valve is standard for all models.

Through-the-Base Electrical Access

An electrical service entrance shall be provided allowing electrical access for both control and main power connections inside the curb and through-the-base of the unit. Option will allow for field installation of liquid-tight conduit and an external field-installed disconnect switch.

Through-the-Base Electrical with Circuit Breaker

This option is a thermal magnetic, molded case, HACR Circuit Breaker with provisions for through-the-base electrical connections.The circuit breaker will be installed in a water tight enclosure in the unit with access through a swinging door. Wiring will be provided from the switch to the unit high voltage terminal block.The circuit breaker will provide overcurrent protection, be sized per NEC and cULus guidelines, and be agency recognized by cULus.

Through-the-Base Electrical with Disconnect Switch

This 3-pole, molded case, disconnect switch with provisions for through-the-base electrical connections are available. The disconnect switch will be installed in the unit in a water tight enclosure with access through a swinging door. Wiring will be provided from the switch to the unit high voltage terminal block. The switch will be cULus agency recognized.

Note: *The disconnect switch will be sized per NEC and cULus guidelines but will not be used in place of unit overcurrent protection.*

Through-the-Base Gas Piping

The unit shall include a standard through-the-base gas provision.This option shall have all piping necessary including, black steel, manual gas shut-off valve, elbows, and union.The manual shut-off valve shall include a 1/8" NPT pressure tap.This assembly will require minor field labor to install (Gas/Electric Only).

Two-Inch Filters

Two-inch MERV 8 and MERV 13 media filters shall be available on all models.

Factory or Field Installed Options

Clogged Filter/Fan Failure Switch

A dedicated differential pressure switch is available to achieve active fan failure indication and/or clogged filter indication. These indications will be registered with either a zone sensor with status indication lights or an Integrated Comfort™ System. This option is available for microprocessor controlled units.

Differential Pressure Switches

These sensors allow individual fan failure and dirty filter indication for microprocessor controlled units. The fan failure switch will disable all unit functions and "flash" the Service LED on the zone sensor. The dirty filter switch will light the Service LED on the zone sensor and will allow continued unit operation.

Discharge Air Temperature Sensing

This option provides true discharge air temperature sensing in heating models. This sensor is a status indicator readable through Tracer™ or Tracker™. This option is available for microprocessor controlled units.

Economizer (Standard)

This accessory shall be available with or without barometric relief. The assembly includes fully modulating 0-100 percent motor and dampers, minimum position setting, preset linkage, wiring harness with plug, spring return actuator and fixed dry bulb control. The barometric relief shall provide a pressure operated damper that shall be gravity closing and shall prohibit entrance of outside air during the equipment "off" cycle. Optional solid state or differential enthalpy control shall be available for either factory or field installation. The economizer arrives in the shipping position and shall be moved to the operating position by the installing contractor.

Electric Heaters

Electric heat modules shall be available for installation within basic unit. Electric heater elements shall be constructed of heavy-duty nickel chromium elements internally delta connected for 240V, wye connected for 480V and 600V. Staging shall be achieved through ReliaTel™. Each heater package shall have automatically reset high limit control operating through heating element contactors. All heaters shall be individually fused from the factory, where required, and shall meet all NEC and CEC requirements when properly installed. Power assemblies shall provide single-point connection. Electric heat modules shall be cULus listed.

Frostat™

This option is to be utilized as a safety device. The Frostat™ opens when temperatures on the evaporator coil fall below 10°F. The temperature will need to rise to 50°F before closing. This option should be utilized in low airflow or high outside air applications (cooling only).

LonTalk® Communication Interface

This option shall be provided to allow the unit to communicate as a Tracer™ LCI-R device or directly with generic LonTalk Network Building Automation System Controls.

Low Leak Economizer

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief. This option can be paired with or without Fault Detection & Diagnostics (FDD) to meet current mandatory CA Title 24 requirements. Available on downflow units only.

The economizers come with three control options, dry bulb and reference or comparative enthalpy (optional).

BACnet® Communication Interface

This option shall be provided to allow the unit to communicate directly with a generic open protocol BACnet MS/TP Network Building Automation System Controls.

Reference or Comparative Enthalpy

Reference Enthalpy is used to measure and communicate outdoor humidity. The unit receives and uses this information to provide improved comfort cooling while using the economizer. Comparative Enthalpy measures and communicates humidity for both outdoor and return air conditions, and return air temperature. The unit receives and uses this information to maximize use of economizer cooling, and to provide maximum occupant comfort control. Reference or Comparative Enthalpy option shall be available when a factory or field installed Downflow Economizer is ordered. This option is available on all downflow models.

Tool-less Hail Guards

Tool-less, hail protection guards are available for condenser coil protection.

Trane Communication Interface

This option shall be provided to interface ReliaTel™ controlled units with the Trane Integrated Comfort™ systems.

Field Installed Options

CO_2 Sensor

The CO_2 sensor shall have the ability to monitor the concentration (parts per million, ppm) of CO_2 (Carbon Dioxide) in the air. As the CO_2 concentration changes, the outside air damper modulates to meet the current ventilation needs of the zone.

Two field installed kits are offered; CO_2 sensor and wiring or CO_2 sensor only. The CO_2 sensor only kit should be ordered with factory installed CO_2 sensor wiring. Factory installed CO_2 sensor wiring saves set-up time and ensures proper unit connections for the CO_2 sensor.

Duct Mounted Humidity Sensor

This duct-mounted humidity sensor is used to control activation of the hot gas reheat dehumidification option. The humidity sensor can be set for humidity levels between 40% and 60% relative humidity by adjusting the ReliaTel Options Module.

High Static Drive

The high static drive option shall allow the standard motor to operate with improved external static capabilities.

Low Leak Economizer

This accessory meets low leak requirements for ASHRAE 90.1, IECC, and CA Title 24 standards (3 cfm/ft^2@1" wg exterior air, 4 cfm/ft^2@1" wg return air). This option allows 100% outdoor air supply from 0-100% modulating dampers and is standard with barometric relief. It can be paired with powered exhaust for additional building pressure relief. Available on downflow units only.

Manual Outside Air Damper

This rain hood and screen shall provide up to 50 percent outside air.

Motorized Outside Air Damper

Manually set outdoor air dampers shall provide up to 50 percent outside air. Once set, outdoor air dampers shall open to set position when indoor fan starts. The damper shall close to the full closed position when indoor fan shuts down.

Powered Exhaust

The powered exhaust, available for 3-10 ton units, shall provide exhaust of return air, when using an economizer, to maintain better building pressurization.

Programmable Night Setback

Auto or manual changeover with seven-day programming. Keyboard selection of Heat, Cool, Fan, Auto, or On. All programmable sensors have System On, Heat, Cool, Service LED/indicators as standard. Night Setback Sensors have one (1) Occupied, one (1) Un-occupied, and one (1) Override program per day.

Remote Potentiometer

The minimum position setting of the economizer shall be adjusted with this accessory.

Roof Curb

The roof curb shall be designed to mate with the unit's downflow supply and return and provide support and a water tight installation when installed properly. The roof curb design shall allow field-fabricated rectangular supply/return ductwork to be connected directly to the curb. Curb shall be shipped knocked down for field assembly and shall include wood nailer strips.

Thermostat

Two stage heating and cooling operation or one stage heating and cooling shall be available in either manual or automatic changeover. Automatic programmable electronic with night set back shall also be available.

Ventilation Override Accessory

With the Ventilation Override Accessory installed, the unit can be set to transition up to 3 different pre-programmed sequences for Smoke Purge, Pressurization, and Exhaust. The transition occurs when a binary input on the RTOM is closed (shorted). This would typically be a hard wired relay output from a smoke detector or fire control panel. The ventilation override accessory shall be available as field installed.

Wall Mounted Humidity Sensor

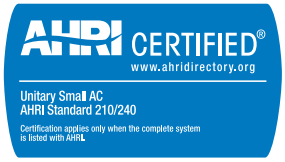
This wall-mounted humidity sensor is used to control activation of the hot gas reheat dehumidification option. The humidity sensor can be set for humidity levels between 40% and 60% relative humidity by adjusting the ReliaTel Options Module.

Wireless Zone Sensor

LCD display that provides heat, cool, auto or off. Includes two temperature setpoints and a lockable setting with °F or °C indicators.

Zone Sensor

This control shall be provided to interface with the Micro equipped units and shall be available in either manual, automatic programmable with night setback, with system malfunction lights, or remote sensor options.



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